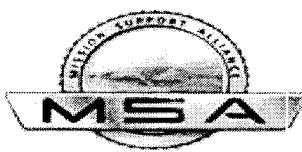


WSCF Laboratory

RECEIVED JUNE 10, 2011



PO Box 650 S3-30
Richland, WA 99352

June 9, 2011

Michael Neely
CH2M-HILL PRC
PO Box 1600
Richland, WA 99352

Dear Michael Neely,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF112348

Reference: (1) SOW, Mod 2, #36587, Release 3
(2) HNF-SD-CD-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Plan

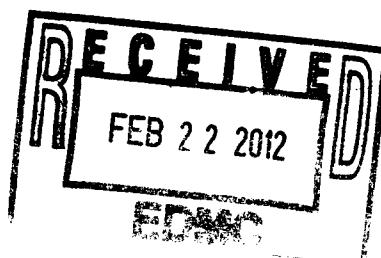
This letter contains the following information for sample delivery group WSCF112348

- * Cover Sheet (Attachment 1)
- * Narrative (Attachment 2)
- * Analytical Results (Attachment 3)
- * Sample Receipt Information (Attachment 4)

Very truly yours,

A handwritten signature in black ink, appearing to read "Joseph Hale".

Electronically signed by Joseph Hale
For Lab Manager
WSCF Analytical Lab
(509) 373-7495



Attachments 4

CC: w/Attachments

File/LB

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF Number Cross Reference

Group # WSCF112348
Data Deliverable Date 06/15/11

| SAF # | Sample ID | Sample # | Matrix | Sampled | Received |
|---------|-----------|-----------|--------|----------|----------|
| F11-064 | B2BNK0 | 112348001 | SOIL | 05/31/11 | 05/31/11 |
| F11-064 | B2BNJ9 | 112348002 | SOIL | 05/31/11 | 05/31/11 |
| F11-064 | B2BNL4 | 112348003 | SOIL | 05/31/11 | 05/31/11 |
| F11-064 | B2BNL5 | 112348004 | SOIL | 05/31/11 | 05/31/11 |

ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Introduction

Samples were received at the WSCF laboratory as referenced on the WSCF SAF Number Cross Reference table included in the final report. The samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Statement of Work (SOW), Modification No. 2 to Agreement 36587, Release 3, "FH WSCF ANALYTICAL SERVICES FOR GROUNDWATER."*

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

It should be noted that the attached chain of custody was not stamped "ICED" by the WSCF Laboratory Sample Custodian during sample receiving. However, based on procedure LO-090-403 form "NOTICE OF IMPROPER SAMPLE SUBMITTAL" was not submitted and was not stamped "NOT ICED". No anomaly was noted during sample receipt.

The following generic data qualifiers (i.e., B, D, U and J) may be applicable to this report, as appropriate

- **B** – Sample results with a concentration greater than the MDL but less than the PQL are B flagged (applies to inorganic and wet chemical analyses), as appropriate.
- **D** – Sample results are D flagged if dilution(s) were required, as appropriate.
- **J** – Sample results with a concentration greater than the MDL but less than the PQL are J flagged (applies to organic analyses), as appropriate.
- **U** – Analyzed for but not detected above limiting criteria. Relative Percent Difference (RPD) values associated with an analyte qualified with a "U" are not applicable.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report* for a complete listing of approved analytical methods.

Inorganic Comments

Anions – Hold time requirements for this analysis were met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group.
Analytical Note(s):

- All applicable QC controls are within the established limits.

Narrative

Attachment 2
Narrative
WSCF112348

Hexavalent Chromium – The hold time requirement for this analysis was met. A Duplicate, Matrix Spike, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Duplicate Relative Percent Difference(s) (RPD) did not meet the established laboratory limits. Duplicate Relative Percent Difference (RPD) does not apply to results near or below the minimum detectable level. No flags issued.
- All other applicable QC controls are within the established limits.

ICP-AES Metals – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- All applicable QC controls are within the established limits.

ICP-MS Metals – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Manganese – MS / MSD Relative Percent Difference (RPD) is outside established laboratory limits. The quality control report was flagged for RPD failure.
- Manganese – Matrix Spike and/or Matrix Spike Duplicate recoveries are outside established laboratory limits. Affected sample results in this batch were “N” flagged.
- All other applicable QC controls are within the established limits.

Organic Comments

PCB – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

Semi-VOA – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Analysis performed by 8270-PAH SIM method.
- All applicable QC controls are within the established limits.

TPHD-WA – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Due to the co-elution of analytes for TPHD-WA (DRO) and kerosene analysis, samples are spiked and evaluated for TPHD only.

- All applicable QC controls are within the established limits.

VOA – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group.
Analytical Note(s):

- All applicable QC controls are within the established limits.

Radiochemistry Comments

Rad Chem – The hold time requirement for this analysis was met. A Duplicate, Matrix Spike (Matrix Spikes apply only to Technetium), Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

Gamma Energy Analysis:

- All applicable QC controls are within the established limits.
- Americium-241:
 - All applicable QC controls are within the established limits.
- Isotopic Plutonium analysis:
 - All applicable QC controls are within the established limits.
- Isotopic Uranium analysis:
 - Uranium-235 – The Blank is less than five times the MDC. “B” Flag not required.
 - All other applicable QC controls are within the established limits.
- Strontium-89/90:
 - All applicable QC controls are within the established limits.
- Technetium-99:
 - All applicable QC controls are within the established limits.

We certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the Analytical Laboratory Manager (or designee) and the Client Services representative as verified by electronic signatures shown on the WSCF ANALYTICAL RESULTS REPORT.

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 63 pages
Including cover page

WSCF ANALYTICAL RESULTS REPORT

For

CH2M Hill Plateau Remediation
PO Box 1600
Richland, WA 99352

Attention: Michael Neely

| Contract # | MOA-FH-CHPRC-2008 |
|-------------|-------------------|
| Group # | WSCF112348 |
| Report Date | June 9, 2011 |

Analytical: Electronically signed by Joseph Hale

Client Services: Electronically signed by Richard Barker

Solid samples results that have a 'Percent Solid' test are reported on a "dry weight basis", except results of TCLP, Percent Solid, and Total Activity. If no 'Percent Solid' test is reported then the results are reported on an "as received" basis.

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7020 or (509) 531-8004. Information designation of this report is the responsibility of the customer.

Batch QC List

Attention Michael Neely
 Department Inorganic
 Group # WSCF112348

| QC Batch | Analytical Batch | S# | Type | Sample # | Client Sample# | Original | Test |
|----------|------------------|----|--------|-----------|----------------------|-----------|--------------------------------------|
| 182694 | 182695 | 4 | BLANK | 56860 | BLANK | | ICP-2008 MS All possible metal |
| 182694 | 182695 | 5 | LCS | 56861 | LCS | | ICP-2008 MS All possible metal |
| 182694 | 182695 | 7 | MS | 56862 | B2CMH9(112317001MS) | 112317001 | ICP-2008 MS All possible metal |
| 182694 | 182695 | 8 | MSD | 56863 | B2CMH9(112317001MSD) | 112317001 | ICP-2008 MS All possible metal |
| 182694 | 182695 | 28 | SAMPLE | 112348003 | B2BNL4 | | ICP-2008 MS All possible metal |
| 182694 | 182695 | 29 | SAMPLE | 112348004 | B2BNL5 | | ICP-2008 MS All possible metal |
| 182963 | 182964 | 5 | BLANK | 57263 | BLANK | | ICP-6010 - All possible metals |
| 182963 | 182964 | 6 | LCS | 57264 | LCS | | ICP-6010 - All possible metals |
| 182963 | 182964 | 7 | MS | 57265 | B2F049(112326022MS) | 112326022 | ICP-6010 - All possible metals |
| 182963 | 182964 | 23 | SAMPLE | 112348003 | B2BNL4 | | ICP-6010 - All possible metals |
| 182963 | 182964 | 24 | SAMPLE | 112348004 | B2BNL5 | | ICP-6010 - All possible metals |
| 183054 | 183055 | 1 | BLANK | 57392 | BLANK | | Hexavalent chromium |
| 183054 | 183055 | 4 | LCS | 57393 | LCS | | Hexavalent chromium |
| 183054 | 183055 | 5 | DUP | 57394 | B2F039(112326012DUP) | 112326012 | Hexavalent chromium |
| 183054 | 183055 | 6 | MS | 57395 | B2F039(112326012MS) | 112326012 | Hexavalent chromium |
| 183054 | 183055 | 7 | PSTSPK | 57396 | PSTSPK | | Hexavalent chromium |
| 183054 | 183055 | 8 | IMS | 57397 | B2F039(112326012IMS) | 112326012 | Hexavalent chromium |
| 183054 | 183055 | 24 | SAMPLE | 112348003 | B2BNL4 | | Hexavalent chromium |
| 183054 | 183055 | 25 | SAMPLE | 112348004 | B2BNL5 | | Hexavalent chromium |
| 183115 | 183116 | 2 | BLANK | 57599 | BLANK | | Anions by Ion Chromatography (Solid) |
| 183115 | 183116 | 3 | LCS | 57600 | LCS | | Anions by Ion Chromatography (Solid) |
| 183115 | 183116 | 4 | MS | 57601 | B2BNL4(112348003MS) | 112348003 | Anions by Ion Chromatography (Solid) |
| 183115 | 183116 | 5 | MSD | 57602 | B2BNL4(112348003MSD) | 112348003 | Anions by Ion Chromatography (Solid) |

Batch QC List

Attention Michael Neely
Department Inorganic

Group #

WSCF112348

| QC Batch | Analytical Batch | S# | Type | Sample # | Client Sample# | Original | Test |
|----------|------------------|----|--------|-----------|----------------------|-----------|--------------------------------------|
| 183115 | 183116 | 6 | DUP | 57603 | B2BNL4(112348003DUP) | 112348003 | Anions by Ion Chromatography (Solid) |
| 183115 | 183116 | 7 | SAMPLE | 112348003 | B2BNL4 | | Anions by Ion Chromatography (Solid) |
| 183115 | 183116 | 9 | SAMPLE | 112348004 | B2BNL5 | | Anions by Ion Chromatography (Solid) |

Batch QC List

Attention Michael Neely
Department Organic, Semivolatiles

Group # WSCF112348

| QC Batch | Analytical Batch | S# | Type | Sample # | Client Sample# | Original | Test |
|----------|------------------|----|--------|-----------|----------------------|-----------|-------------------------------------|
| 182864 | 183151 | 1 | BLANK | 57224 | BLANK | | PCBs by EPA SW-846 Method 8082 |
| 182864 | 183151 | 2 | LCS | 57225 | LCS | | PCBs by EPA SW-846 Method 8082 |
| 182864 | 183151 | 3 | MS | 57226 | B2F047(112326020MS) | 112326020 | PCBs by EPA SW-846 Method 8082 |
| 182864 | 183151 | 4 | MSD | 57227 | B2F047(112326020MSD) | 112326020 | PCBs by EPA SW-846 Method 8082 |
| 182864 | 183151 | 9 | SAMPLE | 112348003 | B2BNL4 | | PCBs by EPA SW-846 Method 8082 |
| 182864 | 183151 | 10 | SAMPLE | 112348004 | B2BNL5 | | PCBs by EPA SW-846 Method 8082 |
| 183058 | 183255 | 1 | BLANK | 57410 | BLANK | | SW-846 8270D Semivolatiles (PAHSIM) |
| 183058 | 183255 | 2 | LCS | 57411 | LCS | | SW-846 8270D Semivolatiles (PAHSIM) |
| 183058 | 183255 | 3 | MS | 57412 | B2BNL4(112348003MS) | 112348003 | SW-846 8270D Semivolatiles (PAHSIM) |
| 183058 | 183255 | 4 | MSD | 57413 | B2BNL4(112348003MSD) | 112348003 | SW-846 8270D Semivolatiles (PAHSIM) |
| 183058 | 183255 | 5 | SAMPLE | 112348003 | B2BNL4 | | SW-846 8270D Semivolatiles (PAHSIM) |
| 183058 | 183255 | 6 | SAMPLE | 112348004 | B2BNL5 | | SW-846 8270D Semivolatiles (PAHSIM) |
| 183060 | 183161 | 1 | BLANK | 57414 | BLANK | | Extractable Diesel and Petroleum |
| 183060 | 183161 | 2 | LCS | 57415 | LCS | | Extractable Diesel and Petroleum |
| 183060 | 183161 | 3 | MS | 57416 | B2BNL4(112348003MS) | 112348003 | Extractable Diesel and Petroleum |
| 183060 | 183161 | 4 | MSD | 57417 | B2BNL4(112348003MSD) | 112348003 | Extractable Diesel and Petroleum |
| 183060 | 183161 | 6 | SAMPLE | 112348003 | B2BNL4 | | Extractable Diesel and Petroleum |
| 183060 | 183161 | 7 | SAMPLE | 112348004 | B2BNL5 | | Extractable Diesel and Petroleum |

Batch QC List

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF112348

| QC Batch | Analytical Batch | S# | Type | Sample # | Client Sample# | Original | Test |
|----------|------------------|----|--------|-----------|----------------------|-----------|---------------------------------------|
| 182718 | 182719 | 1 | BLANK | 56946 | BLANK | | SW-846 8260B Volatiles, separate prep |
| 182718 | 182719 | 2 | LCS | 56947 | LCS | | SW-846 8260B Volatiles, separate prep |
| 182718 | 182719 | 3 | MS | 56948 | B2F034(112326010MS) | 112326010 | SW-846 8260B Volatiles, separate prep |
| 182718 | 182719 | 4 | MSD | 56949 | B2F034(112326010MSD) | 112326010 | SW-846 8260B Volatiles, separate prep |
| 182718 | 182719 | 8 | SAMPLE | 112348001 | B2BNK0 | | SW-846 8260B Volatiles, separate prep |
| 182718 | 182719 | 9 | SAMPLE | 112348002 | B2BNJ9 | | SW-846 8260B Volatiles, separate prep |

Batch QC List

Attention Michael Neely
Department Radiochemistry

Group # WSCF112348

| QC Batch | Analytical Batch | S# | Type | Sample # | Client Sample# | Original | Test |
|----------|------------------|----|--------|-----------|----------------------|-----------|-------------------------------|
| 182700 | 183139 | 1 | BLANK | 56886 | BLANK | | Americium/Curium (AEA) |
| 182700 | 183139 | 2 | LCS | 56887 | LCS | | Americium/Curium (AEA) |
| 182700 | 183139 | 3 | SAMPLE | 112348003 | B2BNL4 | | Americium/Curium (AEA) |
| 182700 | 183139 | 4 | DUP | 56888 | B2BNL4(112348003DUP) | 112348003 | Americium/Curium (AEA) |
| 182700 | 183139 | 5 | SAMPLE | 112348004 | B2BNL5 | | Americium/Curium (AEA) |
| 182700 | 183143 | 1 | DUP | 56888 | B2BNL4(112348003DUP) | 112348003 | Plutonium (AEA) |
| 182700 | 183143 | 2 | SAMPLE | 112348003 | B2BNL4 | | Plutonium (AEA) |
| 182700 | 183143 | 3 | SAMPLE | 112348004 | B2BNL5 | | Plutonium (AEA) |
| 182700 | 183143 | 4 | BLANK | 56886 | BLANK | | Plutonium (AEA) |
| 182700 | 183143 | 5 | LCS | 56887 | LCS | | Plutonium (AEA) |
| 182700 | 183145 | 1 | DUP | 56888 | B2BNL4(112348003DUP) | 112348003 | Uranium (AEA) |
| 182700 | 183145 | 2 | SAMPLE | 112348003 | B2BNL4 | | Uranium (AEA) |
| 182700 | 183145 | 3 | SAMPLE | 112348004 | B2BNL5 | | Uranium (AEA) |
| 182700 | 183145 | 4 | BLANK | 56886 | BLANK | | Uranium (AEA) |
| 182700 | 183145 | 5 | LCS | 56887 | LCS | | Uranium (AEA) |
| 182709 | 182713 | 1 | IBLANK | 56921 | IBLANK | | Gamma Energy Analysis-general |
| 182709 | 182713 | 2 | LCS | 56922 | LCS | | Gamma Energy Analysis-general |
| 182709 | 182713 | 3 | DUP | 56923 | B2F048(112326021DUP) | 112326021 | Gamma Energy Analysis-general |
| 182709 | 182713 | 6 | SAMPLE | 112348003 | B2BNL4 | | Gamma Energy Analysis-general |
| 182709 | 182713 | 7 | SAMPLE | 112348004 | B2BNL5 | | Strontium 89/90 (GPC/GEA) |
| 182716 | 182952 | 1 | BLANK | 56943 | BLANK | | Strontium 89/90 (GPC/GEA) |
| 182716 | 182952 | 2 | LCS | 56944 | LCS | | Strontium 89/90 (GPC/GEA) |
| 182716 | 182952 | 3 | DUP | 56945 | B2BNL4(112348003DUP) | 112348003 | Strontium 89/90 (GPC/GEA) |

Batch QC List

Attention Michael Neely
Department Radiochemistry

Group # WSCK112348

| QC Batch | Analytical Batch | S# | Type | Sample # | Client Sample# | Original | Test |
|----------|------------------|----|--------|-----------|----------------------|-----------|------------------------------|
| 182716 | 182952 | 4 | SAMPLE | 112348003 | B2BNL4 | | Strontium 89/90 (GPC/GEA) |
| 182716 | 182952 | 5 | SAMPLE | 112348004 | B2BNL5 | | Strontium 89/90 (GPC/GEA) |
| 182749 | 182750 | 1 | BLANK | 57088 | BLANK | | TC99 by Liquid Scintillation |
| 182749 | 182750 | 2 | LCS | 57089 | LCS | | TC99 by Liquid Scintillation |
| 182749 | 182750 | 4 | DUP | 57090 | B2F039(112326012DUP) | 112326012 | TC99 by Liquid Scintillation |
| 182749 | 182750 | 5 | MS | 57091 | B2F039(112326012MS) | 112326012 | TC99 by Liquid Scintillation |
| 182749 | 182750 | 16 | SAMPLE | 112348003 | B2BNL4 | | TC99 by Liquid Scintillation |
| 182749 | 182750 | 17 | SAMPLE | 112348004 | B2BNL5 | | TC99 by Liquid Scintillation |

Batch QC List

Attention Michael Neely
Department Wet Chemistry

Group # WSCF112348

| QC Batch | Analytical Batch | S# | Type | Sample # | Client Sample# | Original | Test |
|----------|------------------|----|--------|-----------|----------------|-----------------------------|------|
| 183070 | 183070 | 4 | SAMPLE | 112348003 | B2BNL4 | Dry Weight/Percent Moisture | |
| 183070 | 183070 | 5 | SAMPLE | 112348004 | B2BNL5 | Dry Weight/Percent Moisture | |
| 183172 | 183172 | 7 | SAMPLE | 112348001 | B2BNK0 | Dry Weight/Percent Moisture | |
| 183172 | 183172 | 8 | SAMPLE | 112348002 | B2BNJ9 | Dry Weight/Percent Moisture | |

Method Reference

| Attention Department | Michael Neely Inorganic | Group # | WSCF112348 |
|----------------------|----------------------------|---------|------------|
| Method Reference | | | |
| | | | |

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

| | | | |
|-------------------|---|--------------------|--|
| LA-265-403 | Hexavalent Chromium Analysis EPA SW-846 HEIS | 7196A 7196_CR6 | Hexavalent Chromium Hexavalent Chromium |
| LA-505-411 | Elemental Analysis by ICP Atomic Emission Spectroscopy (ICP AES) EPA SW-846 | 6010C | Inductively Coupled Plasma-Atomic Emmision Spectrometry |
| | | 6010_METALS_ICP | Inductively Coupled Plasma-Atomic Emmision Spectrometry |
| LA-505-412 | Determination of Trace Elements in Waters & Wastes by ICP-Mass Spectrometry EPA-600/R-94-111 | 200.8 | Determination of Trace Elements in Waters and Waste by Inductively Coupled Plasma |
| | | 200.8_METALS_ICPMS | Determination of Trace Elements in Waters and Waste by Inductively Coupled Plasma, Mass Spec. |
| LA-533-410 | Anion Analysis by Ion Chromatography EPA-600/R-94-111 | 300.0 | Determination of Inorganic Anions by Ion Chromatography |
| | | 300.0_ANIONS_IC | Determination of Inorganic Anions by Ion Chromatography |

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at <http://www7.rl.gov/rapidweb/AS-DOL/index.cfm>

Method Reference

Attention Michael Neely
Department Organic, Semivolatiles

Group # WSCF112348

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

| | | |
|-------------------|--|--|
| LA-523-456 | Semivolatile Sample Analysis by SW-846 Method 8270D | |
| EPA SW-846 | 8000B | Determinative Chromatographic Separations |
| EPA SW-846 | 3510C | Separatory Funnel Liquid-Liquid Extraction |
| EPA SW-846 | 8270D | Semivolatile Organic Compounds by Gas |
| EPA SW-846 | 3545 | Pressurized Fluid Extraction (PFE) |
| | | Chromatography/Mass Spectrometry (GC/MS) |
| HEIS | 8270_SVOA_GCMS | Semivolatile Organic Compounds by Gas |
| | | Chromatography/Mass Spectrometry(GC/MS) |
| LA-523-427 | Polychlorinated Biphenyls (PCB'S) by Gas Chromatography | |
| EPA SW-846 | 3510C | Separatory Funnel Liquid-Liquid Extraction |
| EPA SW-846 | 3545 | Pressurized Fluid Extraction (PFE) |
| EPA SW-846 | 3665A | Sulfuric Acid/Permanganate Cleanup |
| EPA SW-846 | 8000B | Determinative Chromatographic Separations |
| EPA SW-846 | 8082 | Polychlorinated Biphenyls (PCBs) by Gas |
| | | Chromatography |
| HEIS | 8082_PCB_GC | Polychlorinated Biphenyls (PCBs) by Gas |
| | | Chromatography |
| LA-523-493 | NWTPH-Dx, Extractible Diesel and Petroleum Products Analysis in Soil and Water | |
| WDOE | WDOE | Total Petroleum Hydrocarbons in Diesel |
| HEIS | WTPH_DIESEL | TPH Diesel |

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at <http://www7.r1.gov/rapidweb/AS-DOI/index.cfm>

Method Reference

| Attention | Michael Neely | Group # | WSCF112348 |
|------------|--------------------|---------|------------|
| Department | Organic, Volatiles | | |

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

| | | |
|-------------------|---|--|
| LA-523-455 | Volatile Sample Analysis by SW-846 Method 8260B | Determinative Chromographic Separations |
| EPA SW-846 | 80000B | |
| EPA SW-846 | 8260B | Volatile Organic Compounds by Gas |
| | | Chromatography/Mass Spectrometry (GC/MS) |
| HEIS | 8260_VOA_GCMS | Volatile Organic Compounds by Gas |
| | | Chromatography/Mass Spectrometry (GC/MS) |

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at <http://www7.rl.gov/rapidweb/AS-DOL/index.cfm>

Method Reference

| | | | |
|-------------------|----------------|----------------|------------|
| Attention | Michael Neely | Group # | WSCF112348 |
| Department | Radiochemistry | | |

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

| | | | |
|-------------------|--|----------------------|--|
| LA-220-406 | Strontium-89 and 90 in Aqueous Samples by SR-SPEC Separation HEIS | SRTOT_SEP_PRECIP_GPC | Strontium 89/90, by Sr-Spec Sep. |
| LA-508-471 | Thorium, Neptunium, Plutonium, Americium, and Uranium In Soil and Water Using Eichrom Column Separation (Prep) HEIS | PUISO_IE_PRECIP_AEA | Isotopic Plutonium, Alpha Spec |
| LA-508-471 | Determination Of Uranium, Plutonium, And Americium HEIS | AMCMISO_IE_PREC_AEA | Americium/Curium Iso, Alpha Spec |
| LA-508-481 | Gamma Energy Analysis using the Canberra Genie Ssystem HEIS | GAMMA_GS | Gamma Energy Analysis |
| LA-508-471 | Determination Of Uranium, Plutonium, And Americium HEIS | UISO_IE_PRECIP_AEA | Uranium Iso, Alpha Spec |
| LA-508-421 | Operation of the Tri-Carb Model 2500TR Liquid Scintillation Analyzer HEIS | ALPHA_LSC | A/B Liquid Scintillation |
| | HEIS | BETA_LSC | A/B Liquid Scintillation |
| | HEIS | TC99_3MDSK_LSC | TC99 by Liquid Scintillation |
| | HEIS | TRITIUM_EIE_LSC | Tritium, by Eichrome ion exchange, LSC |

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at <http://www7.rl.gov/rapidweb/AS-DOL/index.cfm>

Method Reference

| | | | |
|-------------------------|--------------------------------|---------|------------|
| Attention Department | Michael Neely Wet Chemistry | Group # | WSCF112348 |
|-------------------------|--------------------------------|---------|------------|

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

| LA-519-412 | Total Residual Percent Solids Dried at 103 - 105 Degrees C | Total Residue |
|------------------|--|---------------------------------|
| EPA-600/4-79-020 | 160.3 | |
| Standard Methods | 2540B | Total Solids Dried at 103-105 C |
| HEIS | %SOLIDS | Dry Weight, Percent Solids |

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at <http://www7.rl.gov/rapidweb/AS-DOL/index.cfm>

WSCF Analytical Results Report

Attention Michael Neely
 Department Inorganic

Sample # 112348003
 SAF# F11-064
 Sample ID B2BNL4

Group # WSCF112348

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|---|-------|--------|----|--------|--------|-------|----|-----|-----|----------|
| Anions by IC | | | | | | | | | | |
| Anions by ICP | | | | | | | | | | |
| Fluoride | | | | | | | | | | |
| 16984-48-8 LA-533-410 U <1.9 mg/kg 1 1.9 10 06/06/11 | | | | | | | | | | |
| Nitrate-N | | | | | | | | | | |
| NO3-N LA-533-410 B 1.90 mg/kg 1 0.98 5.1 06/06/11 | | | | | | | | | | |
| Cr(VI) Prep | | | | | | | | | | |
| Cr(VI) | | | | | | | | | | |
| Hexavalent chromium | | | | | | | | | | |
| 18540-29-9 LA-265-403 B 0.0504 ug/g 1 0.034 0.51 06/03/11 | | | | | | | | | | |
| ICP Prep | | | | | | | | | | |
| ICP-AES | | | | | | | | | | |
| Lithium | | | | | | | | | | |
| 7439-93-2 LA-505-411 3.51 mg/kg 1 0.52 2.1 06/07/11 | | | | | | | | | | |
| Boron | | | | | | | | | | |
| 7440-42-8 LA-505-411 4.55 mg/kg 1 1.3 21 06/07/11 | | | | | | | | | | |
| ICPMS Prep | | | | | | | | | | |
| ICP-MS | | | | | | | | | | |
| Manganese | | | | | | | | | | |
| 7439-96-5 LA-505-412 N 347 mg/kg 1 0.096 0.96 06/03/11 | | | | | | | | | | |
| Nickel | | | | | | | | | | |
| 7440-02-0 LA-505-412 7.63 mg/kg 1 0.19 1.9 06/03/11 | | | | | | | | | | |
| Silver | | | | | | | | | | |
| 7440-22-4 LA-505-412 <0.096 mg/kg 1 0.096 0.96 06/03/11 | | | | | | | | | | |
| Antimony | | | | | | | | | | |
| 7440-36-0 LA-505-412 <0.29 mg/kg 1 0.29 2.9 06/03/11 | | | | | | | | | | |
| Barium | | | | | | | | | | |
| 7440-39-3 LA-505-412 68.4 mg/kg 1 0.19 1.9 06/03/11 | | | | | | | | | | |
| Beryllium | | | | | | | | | | |
| 7440-41-7 LA-505-412 0.178 mg/kg 1 0.096 0.48 06/03/11 | | | | | | | | | | |

MDL = Minimum Detection
 RQ = Result Qualifier
 TP Err = Total Propagated
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL/(inorganic)
 C - Analyte was found in the Associated Blank. (inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
 Department Inorganic

| | | | | | | | | | | Group # | WSCF112348 |
|----------------|-----------|------------|----|--------|--------|-------|----|-------|------|----------|------------|
| Sample # | 112348003 | | | | | | | | | Matrix | SOIL |
| SAF# | F11-064 | | | | | | | | | Sampled | 05/31/11 |
| Sample ID | B2BNL4 | | | | | | | | | Received | 05/31/11 |
| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed | |
| Cadmium | 7440-43-9 | LA-505-412 | U | <0.096 | | mg/kg | 1 | 0.096 | 0.96 | 06/03/11 | |
| Chromium | 7440-47-3 | LA-505-412 | | 5.19 | | mg/kg | 1 | 0.48 | 4.8 | 06/03/11 | |
| Cobalt | 7440-48-4 | LA-505-412 | | 9.60 | | mg/kg | 1 | 0.096 | 0.48 | 06/03/11 | |
| Copper | 7440-50-8 | LA-505-412 | | 12.4 | | mg/kg | 1 | 0.096 | 0.96 | 06/03/11 | |
| Vanadium | 7440-62-2 | LA-505-412 | | 76.3 | | mg/kg | 1 | 0.19 | 1.9 | 06/03/11 | |
| Zinc | 7440-66-6 | LA-505-412 | | 46.5 | | mg/kg | 1 | 0.77 | 4.8 | 06/03/11 | |
| Lead | 7439-92-1 | LA-505-412 | | 3.10 | | mg/kg | 1 | 0.096 | 0.96 | 06/03/11 | |
| Mercury | 7439-97-6 | LA-505-412 | U | <0.048 | | mg/kg | 1 | 0.048 | 0.19 | 06/03/11 | |
| Strontium | 7440-24-6 | LA-505-412 | | 24.1 | | mg/kg | 1 | 0.096 | 0.96 | 06/03/11 | |
| Thallium | 7440-28-0 | LA-505-412 | U | <0.096 | | mg/kg | 1 | 0.096 | 0.48 | 06/03/11 | |
| Tin | 7440-31-5 | LA-505-412 | B | 0.395 | | mg/kg | 1 | 0.096 | 0.48 | 06/03/11 | |
| Uranium | 7440-61-1 | LA-505-412 | | 0.521 | | mg/kg | 1 | 0.096 | 0.48 | 06/03/11 | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 2.87 | | mg/kg | 1 | 0.38 | 3.8 | 06/03/11 | |
| Selenium | 7782-49-2 | LA-505-412 | B | 0.793 | | mg/kg | 1 | 0.29 | 2.9 | 06/03/11 | |

MDL = Minimum Detection B - Analyte < the PQL(or EQL)but >= the IDL/MDL (Inorganic)
 RQ = Result Qualifier C - Analyte was found in the Associated Blank. (Inorganic)
 TP Err = Total Propagated D - Analyte was reported at a secondary dilution factor.
 DF = Dilution Factor E - Analyte is an estimate, see comment section.
 + - Indicates more than nine qualifier N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
 Department Inorganic
 Sample # 112348004
 SAF# F11-064
 Sample ID B2BNL5

Group # WSCF112348

| Sample # | 112348004 | | | | | | | | | | | | | |
|-----------------------|--------------|---------------|-----------|---------------|---------------|--------------|-----------|------------|------------|-----------------|----------|--|--|--|
| SAF# | F11-064 | | | | | | | | | | | | | |
| Sample ID | B2BNL5 | | | | | | | | | | | | | |
| Group # | WSCF112348 | | | | | | | | | | | | | |
| Matrix | SOIL | | | | | | | | | | | | | |
| Sampled | 05/31/11 | | | | | | | | | | | | | |
| Received | 05/31/11 | | | | | | | | | | | | | |
| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed | | | | |
| Anions by IC | | | | | | | | | | | 06/06/11 | | | |
| Anions by IC | | | | | | | | | | | | | | |
| Fluoride | 16984-48-8 | LA-533-410 | U | <1.9 | | mg/kg | 1 | 1.9 | 10 | | 06/06/11 | | | |
| Nitrate-N | NO3-N | LA-533-410 | B | 1.73 | | mg/kg | 1 | 0.98 | 5.1 | | 06/06/11 | | | |
| Cr(VI) Prep | | | | | | | | | | | 06/02/11 | | | |
| Cr(VI) | | | | | | | | | | | | | | |
| Hexavalent chromium | 18540-29-9 | LA-265-403 | U | <0.034 | | ug/g | 1 | 0.034 | 0.51 | | 06/03/11 | | | |
| ICP Prep | | | | | | | | | | | 06/03/11 | | | |
| ICP-AES | | | | | | | | | | | | | | |
| Lithium | 7439-93-2 | LA-505-411 | | 4.37 | | mg/kg | 1 | 0.52 | 2.1 | | 06/07/11 | | | |
| Boron | 7440-42-8 | LA-505-411 | B | 3.74 | | mg/kg | 1 | 1.4 | 21 | | 06/07/11 | | | |
| ICPMS Prep | | | | | | | | | | | 06/01/11 | | | |
| ICP-MS | | | | | | | | | | | | | | |
| Manganese | 7439-96-5 | LA-505-412 | N | 330 | | mg/kg | 1 | 0.099 | 0.99 | | 06/03/11 | | | |
| Nickel | 7440-02-0 | LA-505-412 | | 8.82 | | mg/kg | 1 | 0.20 | 2.0 | | 06/03/11 | | | |
| Silver | 7440-22-4 | LA-505-412 | U | <0.099 | | mg/kg | 1 | 0.099 | 0.99 | | 06/03/11 | | | |
| Antimony | 7440-36-0 | LA-505-412 | U | <0.30 | | mg/kg | 1 | 0.30 | 3.0 | | 06/03/11 | | | |
| Barium | 7440-39-3 | LA-505-412 | | 78.2 | | mg/kg | 1 | 0.20 | 2.0 | | 06/03/11 | | | |
| Beryllium | 7440-41-7 | LA-505-412 | B | 0.275 | | mg/kg | 1 | 0.099 | 0.50 | | 06/03/11 | | | |

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 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
 Department Inorganic
 SAF# F11-064
 Sample ID B2BNL5

Group # WSCF112348

| Sample # | 112348004 | | | | | | | | | | | | |
|----------------|-----------|------------|----|--------|--------|-------|----|-------|------|----------|--|--|--|
| SAF# | F11-064 | | | | | | | | | | | | |
| Sample ID | B2BNL5 | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed | | | |
| Cadmium | 7440-43-9 | LA-505-412 | U | <0.099 | | mg/kg | 1 | 0.099 | 0.99 | 06/03/11 | | | |
| Chromium | 7440-47-3 | LA-505-412 | | 7.26 | | mg/kg | 1 | 0.50 | 5.0 | 06/03/11 | | | |
| Cobalt | 7440-48-4 | LA-505-412 | | 9.79 | | mg/kg | 1 | 0.099 | 0.50 | 06/03/11 | | | |
| Copper | 7440-50-8 | LA-505-412 | | 14.1 | | mg/kg | 1 | 0.099 | 0.99 | 06/03/11 | | | |
| Vanadium | 7440-62-2 | LA-505-412 | | 78.7 | | mg/kg | 1 | 0.20 | 2.0 | 06/03/11 | | | |
| Zinc | 7440-66-6 | LA-505-412 | | 49.3 | | mg/kg | 1 | 0.79 | 5.0 | 06/03/11 | | | |
| Lead | 7439-92-1 | LA-505-412 | | 4.31 | | mg/kg | 1 | 0.099 | 0.99 | 06/03/11 | | | |
| Mercury | 7439-97-6 | LA-505-412 | U | <0.050 | | mg/kg | 1 | 0.050 | 0.20 | 06/03/11 | | | |
| Strontium | 7440-24-6 | LA-505-412 | | 24.9 | | mg/kg | 1 | 0.099 | 0.99 | 06/03/11 | | | |
| Thallium | 7440-28-0 | LA-505-412 | U | <0.099 | | mg/kg | 1 | 0.099 | 0.50 | 06/03/11 | | | |
| Tin | 7440-31-5 | LA-505-412 | B | 0.416 | | mg/kg | 1 | 0.099 | 0.50 | 06/03/11 | | | |
| Uranium | 7440-61-1 | LA-505-412 | | 0.530 | | mg/kg | 1 | 0.099 | 0.50 | 06/03/11 | | | |
| Arsenic | 7440-38-2 | LA-505-412 | B | 3.63 | | mg/kg | 1 | 0.40 | 4.0 | 06/03/11 | | | |
| Selenium | 7782-49-2 | LA-505-412 | B | 0.881 | | mg/kg | 1 | 0.30 | 3.0 | 06/03/11 | | | |

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 TP Err = Total Propagated
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 PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
 Department Organic, Semivolatiles

Group # WSCF112348

Sample # 112348003
 SAF# F11-064
 Sample ID B2BNL4

Matrix SOIL
 Sampled 05/31/11
 Received 05/31/11

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|------------------------------------|----------|------------|----|--------|--------|-------|----|-----|-----|-----------------|
| 8270 Prep | | | | | | | | | | 06/06/11 |
| SW-846 8270D | | | | | | | | | | |
| Naphthalene | 91-20-3 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 |
| Acenaphthylene | 208-96-8 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 |
| Acenaphthene | 83-32-9 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 |
| Fluorene | 86-73-7 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 |
| Phenanthrene | 85-01-8 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 |
| Anthracene | 120-12-7 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 |
| Fluoranthene | 206-44-0 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 |
| Pyrene | 129-00-0 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 |
| Benzo(a)anthracene | 56-55-3 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 |
| Chrysene | 218-01-9 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 |
| Benzo(b)fluoranthene | 205-99-2 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 |
| Benzo(k)fluoranthene | 207-08-9 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 |
| Benzo(a)pyrene | 50-32-8 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 |
| Dibenzo(a,h)anthracen ^e | 53-70-3 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 |
| Benzo(g,h,i)perylene | 191-24-2 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 |
| PCB Prep Solids | | | | | | | | | | 06/02/11 |

MDL = Minimum Detection

RQ = Result Qualifier

TP Err = Total Propagated

DF = Dilution Factor

+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE

D - Analyte was reported at a secondary dilution factor.

E - The calibration exceeds the calibration range (GC/MS).

J - Analyte < lowest calibration but >= MDL.

N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).

U - Analyzed for but not detected above limiting criteria.

X,Y or Z - See comment detail and/or narrative.

PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
 Department Organic, Semivolatiles

Group # WSCF112348

| | | | |
|------------------|-----------|----------------|------------|
| Sample # | 112348003 | Group # | WSCF112348 |
| SAF# | F11-064 | | |
| Sample ID | B2BNL4 | | |

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|-------------------------|------------|------------|----|--------|--------|-------|----|-----|-----|----------|
| PCBs | | | | | | | | | | |
| Aroclor-1016 | 12674-11-2 | LA-523-427 | U | <4 | | ug/kg | 1 | 4 | 8 | 06/07/11 |
| Aroclor-1221 | 11104-28-2 | LA-523-427 | U | <8 | | ug/kg | 1 | 8 | 20 | 06/07/11 |
| Aroclor-1232 | 11141-16-5 | LA-523-427 | U | <4 | | ug/kg | 1 | 4 | 8 | 06/07/11 |
| Aroclor-1242 | 53469-21-9 | LA-523-427 | U | <4 | | ug/kg | 1 | 4 | 8 | 06/07/11 |
| Aroclor-1248 | 12672-29-6 | LA-523-427 | U | <4 | | ug/kg | 1 | 4 | 8 | 06/07/11 |
| Aroclor-1254 | 11097-69-1 | LA-523-427 | U | <4 | | ug/kg | 1 | 4 | 8 | 06/07/11 |
| Aroclor-1260 | 11096-82-5 | LA-523-427 | U | <4 | | ug/kg | 1 | 4 | 8 | 06/07/11 |
| TPHD Prep Solids | | | | | | | | | | |
| TPHDWA | | | | | | | | | | |
| Diesel | TPHDIESEL | LA-523-493 | U | <4 | | mg/kg | 1 | 4 | 5 | 06/07/11 |
| Kerosene | TPHKEROSEN | LA-523-493 | U | <4 | | mg/kg | 1 | 4 | 5 | 06/07/11 |

MDL = Minimum Detection B - Analyte was detected in both the BLANK and SAMPLE
 RQ = Result Qualifier D - Analyte was reported at a secondary dilution factor.
 TP Err = Total Propagated E - The calibration exceeds the calibration range (GC/MS).
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WSCF Analytical Results Report

Attention Michael Neely
 Department Organic, Semivolatiles

| | | | | | | | | | | Group # | | WSCF112348 | |
|------------------------|-----------|------------|------|---------|----------|----------|----------|-----|-----|----------|----------|------------|--|
| Sample # | 112348004 | Matrix | SOIL | Sampled | 05/31/11 | Received | 05/31/11 | | | | | | |
| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed | 06/06/11 | | |
| 8270 Prep | | | | | | | | | | | | | |
| SW-846 8270D | | | | | | | | | | | | | |
| Naphthalene | 91-20-3 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 | | | |
| Acenaphthylene | 208-96-8 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 | | | |
| Acenaphthene | 83-32-9 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 | | | |
| Fluorene | 86-73-7 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 | | | |
| Phenanthrene | 85-01-8 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 | | | |
| Anthracene | 120-12-7 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 | | | |
| Fluoranthene | 206-44-0 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 | | | |
| Pyrene | 129-00-0 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 | | | |
| Benzo(a)anthracene | 56-55-3 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 | | | |
| Chrysene | 218-01-9 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 | | | |
| Benzo(b)fluoranthene | 205-99-2 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 | | | |
| Benzo(k)fluoranthene | 207-08-9 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 | | | |
| Benzo(a)pyrene | 50-32-8 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 | | | |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 | | | |
| Dibenz(a,h)anthracen | 53-70-3 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 | | | |
| e Benzo(g,h,i)perylene | 191-24-2 | LA-523-456 | U | <200 | | ug/kg | 1 | 200 | 800 | 06/08/11 | | | |
| PCB Prep Solids | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

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T - MS/MSD recovery outside control limits(GC/MS only).
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 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Semivolatiles

Group # WSCF112348

Sample # 112348004
SAF# F11-064
Sample ID B2BNL5

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|----------------|-------|--------|----|--------|--------|-------|----|-----|-----|----------|
| PCBs | | | | | | | | | | |

| | | | | | | | | | | |
|-------------------------|------------|------------|---|----|--|-------|---|---|----|----------|
| Aroclor-1016 | 12674-11-2 | LA-523-427 | U | <4 | | ug/kg | 1 | 4 | 8 | 06/07/11 |
| Aroclor-1221 | 11104-28-2 | LA-523-427 | U | <8 | | ug/kg | 1 | 8 | 20 | 06/07/11 |
| Aroclor-1232 | 11141-16-5 | LA-523-427 | U | <4 | | ug/kg | 1 | 4 | 8 | 06/07/11 |
| Aroclor-1242 | 53469-21-9 | LA-523-427 | U | <4 | | ug/kg | 1 | 4 | 8 | 06/07/11 |
| Aroclor-1248 | 12672-29-6 | LA-523-427 | U | <4 | | ug/kg | 1 | 4 | 8 | 06/07/11 |
| Aroclor-1254 | 11097-69-1 | LA-523-427 | U | <4 | | ug/kg | 1 | 4 | 8 | 06/07/11 |
| Aroclor-1260 | 11096-82-5 | LA-523-427 | U | <4 | | ug/kg | 1 | 4 | 8 | 06/07/11 |
| TPHD Prep Solids | | | | | | | | | | |
| TPHDWA | | | | | | | | | | |
| Diesel | TPHDIESEL | LA-523-493 | U | <4 | | mg/kg | 1 | 4 | 5 | 06/07/11 |
| Kerosene | TPHKEROSEN | LA-523-493 | U | <4 | | mg/kg | 1 | 4 | 5 | 06/07/11 |

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|----------------|-------|--------|----|--------|--------|-------|----|-----|-----|----------|
| TPHDWA | | | | | | | | | | |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary dilution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF112348

| Sample # | 112348001 | Matrix | SOIL |
|----------------------|-----------|------------|---------------------------|
| SAF# | F11-064 | Sampled | 05/31/11 |
| Sample ID | B2BNK0 | Received | 05/31/11 |
| 06/01/11 | | | |
| 8260 Prep | | | |
| SW-846 8260B | | | |
| 1,1-Dichloroethene | 75-35-4 | LA-523-455 | U <1 ug/kg 1 1 6 06/03/11 |
| Trichloroethene | 79-01-6 | LA-523-455 | U <1 ug/kg 1 1 6 06/03/11 |
| Benzene | 71-43-2 | LA-523-455 | U <1 ug/kg 1 1 6 06/03/11 |
| Toluene | 108-88-3 | LA-523-455 | U <1 ug/kg 1 1 6 06/03/11 |
| Chlorobenzene | 108-90-7 | LA-523-455 | U <1 ug/kg 1 1 6 06/03/11 |
| Total Xylenes | 1330-20-7 | LA-523-455 | U <1 ug/kg 1 1 6 06/03/11 |
| Carbon tetrachloride | 56-23-5 | LA-523-455 | U <1 ug/kg 1 1 6 06/03/11 |

MDL = Minimum Detection B - Analyte was detected in both the BLANK and SAMPLE
RQ = Result Qualifier D - Analyte was reported at a secondary dilution factor.
TP Err = Total Propagated E - The calibration exceeds the calibration range (GC/MS).
DF = Dilution Factor J - Analyte < PQL (or EQL) >= MDL.
+ - Indicates more than nine qualifier N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
N - MS and/or MSD recovery outside control limits.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
 Department Organic, Volatilities

Group # WSCF112348

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|----------------------|-----------|------------|----|--------|--------|-------|----|-----|-----|----------|
| 8260 Prep | | | | | | | | | | |
| SW-846 8260B | | | | | | | | | | |
| 1,1-Dichloroethene | 75-35-4 | LA-523-455 | U | <0.7 | | ug/kg | 1 | 0.7 | 4 | 06/03/11 |
| Trichloroethene | 79-01-6 | LA-523-455 | U | <0.7 | | ug/kg | 1 | 0.7 | 4 | 06/03/11 |
| Benzene | 71-43-2 | LA-523-455 | U | <0.7 | | ug/kg | 1 | 0.7 | 4 | 06/03/11 |
| Toluene | 108-88-3 | LA-523-455 | U | <0.7 | | ug/kg | 1 | 0.7 | 4 | 06/03/11 |
| Chlorobenzene | 108-90-7 | LA-523-455 | U | <0.7 | | ug/kg | 1 | 0.7 | 4 | 06/03/11 |
| Total Xylenes | 1330-20-7 | LA-523-455 | U | <0.7 | | ug/kg | 1 | 0.7 | 4 | 06/03/11 |
| Carbon tetrachloride | 56-23-5 | LA-523-455 | U | <0.7 | | ug/kg | 1 | 0.7 | 4 | 06/03/11 |

MDL = Minimum Detection B - Analyte was detected in both the BLANK and SAMPLE
RQ = Result Qualifier D - Analyte was reported at a secondary dilution factor.
TP Err = Total Propagated E - The calibration exceeds the calibration range (GC/MS).
DF = Dilution Factor J - Analyte < PQL (or EQL) >= MDL.
 + - Indicates more than nine qualifier N - MS and/or MSD recovery outside control limits.
 N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).
 U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF112348

Sample # 112348003
SAF# F11-064
Sample ID B2BNL4

Matrix SOIL
Sampled 05/31/11
Received 05/31/11

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|--|-------|--------|----|--------|--------|-------|----|-----|-----|----------|
| GEA Prep | | | | | | | | | | |
| GEA | | | | | | | | | | |
| Cesium-137 | | | | | | | | | | |
| 10045-97-3 | | | | | | | | | | |
| LA-508-481 | | | | | | | | | | |
| U | | | | | | | | | | |
| -7.2E-3 | | | | | | | | | | |
| pCi/g | | | | | | | | | | |
| 0.031 | | | | | | | | | | |
| 06/01/11 | | | | | | | | | | |
| Cobalt-60 | | | | | | | | | | |
| 10198-40-0 | | | | | | | | | | |
| LA-508-481 | | | | | | | | | | |
| U | | | | | | | | | | |
| 6.5E-3 | | | | | | | | | | |
| pCi/g | | | | | | | | | | |
| 0.033 | | | | | | | | | | |
| 06/01/11 | | | | | | | | | | |
| Europium-152 | | | | | | | | | | |
| 14683-23-9 | | | | | | | | | | |
| LA-508-481 | | | | | | | | | | |
| U | | | | | | | | | | |
| -6.4E-3 | | | | | | | | | | |
| pCi/g | | | | | | | | | | |
| 0.091 | | | | | | | | | | |
| 06/01/11 | | | | | | | | | | |
| Europium-154 | | | | | | | | | | |
| 15585-10-1 | | | | | | | | | | |
| LA-508-481 | | | | | | | | | | |
| U | | | | | | | | | | |
| 0.014 | | | | | | | | | | |
| pCi/g | | | | | | | | | | |
| 0.11 | | | | | | | | | | |
| 06/01/11 | | | | | | | | | | |
| Europium-155 | | | | | | | | | | |
| 14391-16-3 | | | | | | | | | | |
| LA-508-481 | | | | | | | | | | |
| U | | | | | | | | | | |
| 0.067 | | | | | | | | | | |
| pCi/g | | | | | | | | | | |
| 0.16 | | | | | | | | | | |
| 06/02/11 | | | | | | | | | | |
| SR-89/90 | | | | | | | | | | |
| Strontium-89/90 | | | | | | | | | | |
| SR-RAD | | | | | | | | | | |
| LA-220-406 | | | | | | | | | | |
| 1.8 | | | | | | | | | | |
| 1 | | | | | | | | | | |
| 0.44 | | | | | | | | | | |
| 06/03/11 | | | | | | | | | | |
| Tc-99 | | | | | | | | | | |
| TRI-CARB LSC | | | | | | | | | | |
| Technetium-99 | | | | | | | | | | |
| 14133-76-7 | | | | | | | | | | |
| LA-508-421 | | | | | | | | | | |
| U | | | | | | | | | | |
| 0.0 | | | | | | | | | | |
| 0.14 | | | | | | | | | | |
| pCi/g | | | | | | | | | | |
| 0.21 | | | | | | | | | | |
| 06/08/11 | | | | | | | | | | |
| Th/Pu/Am/U Teva | | | | | | | | | | |
| AEA Am-U-Pu | | | | | | | | | | |
| Americium-241 | | | | | | | | | | |
| 14596-10-2 | | | | | | | | | | |
| LA-508-471 | | | | | | | | | | |
| U | | | | | | | | | | |
| 0.062 | | | | | | | | | | |
| 0.045 | | | | | | | | | | |
| pCi/g | | | | | | | | | | |
| 0.067 | | | | | | | | | | |
| 06/07/11 | | | | | | | | | | |
| AEA Pu-Np | | | | | | | | | | |
| Plutonium-238 | | | | | | | | | | |
| 13981-16-3 | | | | | | | | | | |
| LA-508-471 | | | | | | | | | | |
| U | | | | | | | | | | |
| 0.022 | | | | | | | | | | |
| 0.038 | | | | | | | | | | |
| pCi/g | | | | | | | | | | |
| 0.065 | | | | | | | | | | |
| 0.017 | | | | | | | | | | |
| 0.018 | | | | | | | | | | |
| 06/07/11 | | | | | | | | | | |
| MDL = Minimum Detection | | | | | | | | | | |
| RQ = Result Qualifier | | | | | | | | | | |
| TP Err = Total Propagated | | | | | | | | | | |
| DF = Dilution Factor | | | | | | | | | | |
| + - Indicates more than nine qualifier | | | | | | | | | | |

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X, Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Sample # 112348003
SAF# F11-064
Sample ID B2BNL4

Group # WSCF112348

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|--------------------|------------|------------|----|--------|--------|-------|----|--------|-----|----------|
| Uranium Iso | | | | | | | | | | |
| Uranium-234 | U-233/234 | LA-508-471 | | 0.16 | .055 | pCi/g | 1 | 0.019 | | 06/07/11 |
| Uranium-235 | 15117-96-1 | LA-508-471 | U | 0.018 | .016 | pCi/g | 1 | 0.021 | | 06/07/11 |
| Uranium-238 | U-238 | LA-508-471 | | 0.17 | .055 | pCi/g | 1 | 5.6E-3 | | 06/07/11 |

MDL = Minimum Detection B - Analyte was detected in both the BLANK and SAMPLE
RQ = Result Qualifier U - Analyzed for but not detected above limiting criteria.
TP Err = Total Propagated N - Spike Recovery is Outside Control Limits.
DF = Dilution Factor X,Y or Z - See comment detail and/or narrative.
+ - Indicates more than nine qualifier

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF112348

| Sample # | 112348004 | Group # | WSCF112348 | | | | | | | |
|------------------------|------------|------------|------------|---------|--------|-------|----|-------|-----|-----------------|
| SAF# | F11-064 | Matrix | SOIL | | | | | | | |
| Sample ID | B2BNL5 | Sampled | 05/31/11 | | | | | | | |
| Received | | Received | 05/31/11 | | | | | | | |
| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
| GEA Prep | | | | | | | | | | 06/01/11 |
| GEA | | | | | | | | | | |
| Cesium-137 | 10045-97-3 | LA-508-481 | U | -2.2E-3 | .021 | pCi/g | 1 | 0.038 | | 06/01/11 |
| Cobalt-60 | 10198-40-0 | LA-508-481 | U | 2.1E-3 | .024 | pCi/g | 1 | 0.045 | | 06/01/11 |
| Europium-152 | 14683-23-9 | LA-508-481 | U | -0.052 | .063 | pCi/g | 1 | 0.098 | | 06/01/11 |
| Europium-154 | 15585-10-1 | LA-508-481 | U | -0.043 | .075 | pCi/g | 1 | 0.13 | | 06/01/11 |
| Europium-155 | 14391-16-3 | LA-508-481 | U | 0.031 | .085 | pCi/g | 1 | 0.15 | | 06/01/11 |
| SR-89/90 | | | | | | | | | | 06/02/11 |
| SR-89/90 | | | | | | | | | | |
| Strontrium-89/90 | SR-RAD | LA-220-406 | U | -0.48 | .8 | pCi/g | 1 | 0.40 | | 06/03/11 |
| Tc-99 | | | | | | | | | | 06/01/11 |
| TRI-CARB LSC | | | | | | | | | | |
| Technetium-99 | 14133-76-7 | LA-508-421 | U | -0.10 | .13 | pCi/g | 1 | 0.21 | | 06/08/11 |
| Th/Pu/Am/U Teva | | | | | | | | | | 06/07/11 |
| AEA Am-U-Pu | | | | | | | | | | |
| Americium-241 | 14596-10-2 | LA-508-471 | U | 0.050 | .049 | pCi/g | 1 | 0.078 | | 06/07/11 |
| AEA Pu-Np | | | | | | | | | | |
| Plutonium-238 | 13981-16-3 | LA-508-471 | U | -0.0060 | .039 | pCi/g | 1 | 0.073 | | 06/07/11 |
| Plutonium-239/240 | PU-239/240 | LA-508-471 | U | 0.016 | .015 | pCi/g | 1 | 0.021 | | 06/07/11 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF112348

| Sample # | 112348004 | Group # | WSCF112348 |
|----------------|-----------|----------|------------|
| SAF# | F11-064 | Matrix | SOIL |
| Sample ID | B2BNL5 | Sampled | 05/31/11 |
| Test Performed | CAS # | Method | RQ |
| Result | TP Err | Units | DF |
| MDL | PQL | Analyzed | |

| Uranium Iso | | | | | | | |
|-------------|------------|------------|-------|------|-------|---|--------|
| Uranium-234 | U-233/234 | LA-508-471 | 0.11 | .042 | pCi/g | 1 | 0.023 |
| Uranium-235 | 15117-96-1 | LA-508-471 | 0.021 | .014 | pCi/g | 1 | 5.6E-3 |
| Uranium-238 | U-238 | LA-508-471 | 0.15 | .051 | pCi/g | 1 | 0.014 |

MDL = Minimum Detection B - Analyte was detected in both the BLANK and SAMPLE
RQ = Result Qualifier U - Analyzed for but not detected above limiting criteria.
TP Err = Total Propagated N - Spike Recovery is Outside Control Limits.
DF = Dilution Factor X, Y or Z - See comment detail and/or narrative.
+ - Indicates more than nine qualifier

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF112348

| | | | |
|-----------|-----------|----------|----------|
| Sample # | 112348001 | Matrix | SOIL |
| SAF# | F11-064 | Sampled | 05/31/11 |
| Sample ID | B2BNK0 | Received | 05/31/11 |

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|----------------------|---------|------------|----|--------|--------|---------|----|-----|-----|----------|
| Total Residue | | | | | | | | | | |
| Total Residue | | | | | | | | | | |
| Percent Solids | %SOLIDS | LA-519-412 | | 97 | | percent | 1 | | | 06/07/11 |

MDL = Minimum Detection B - Analyte < the RDL but \geq the IDL/MDL.
RQ = Result Qualifier C - Analyte was found in the Associated Blank. (Inorganic)
TP Err = Total Propagated D - Analyte was reported at a secondary dilution factor.
DF = Dilution Factor N - MS and/or MSD sample recovery outside control limits.
+ - Indicates more than nine qualifier U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF112348

| | | | |
|-----------|-----------|----------|----------|
| Sample # | 112348002 | Matrix | SOIL |
| SAF# | F11-064 | Sampled | 05/31/11 |
| Sample ID | B2BNJ9 | Received | 05/31/11 |

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|----------------------|---------|------------|----|--------|--------|---------|----|-----|-----|----------|
| Total Residue | | | | | | | | | | |
| Total Residue | | | | | | | | | | |
| Percent Solids | %SOLIDS | LA-519-412 | | 97 | | percent | 1 | | | 06/07/11 |

MDL = Minimum Detection B - Analyte < the RDL but \geq the IDL/MDL.
RQ = Result Qualifier C - Analyte was found in the Associated Blank. (Inorganic)
TP Err = Total Propagated D - Analyte was reported at a secondary dilution factor.
DF = Dilution Factor N - MS and/or MSD sample recovery outside control limits.
+ - Indicates more than nine qualifier U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

| | | | |
|------------|---------------|----------|------------|
| Attention | Michael Neely | Group # | WSCF112348 |
| Department | Wet Chemistry | | |
| Sample # | 112348003 | Matrix | SOIL |
| SAF# | F11-064 | Sampled | 05/31/11 |
| Sample ID | B2BNL4 | Received | 05/31/11 |

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|----------------------|---------|------------|----|--------|--------|---------|----|-----|-----|----------|
| Total Residue | | | | | | | | | | |
| Total Residue | | | | | | | | | | |
| Percent Solids | %SOLIDS | LA-519-412 | | 97 | | percent | 1 | | | 06/01/11 |

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier
B - Analyte < the RDL but => the IDL/MDL.
C - Analyte was found in the Associated Blank. (inorganic)
D - Analyte was reported at a secondary dilution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

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Report ID: 112348
Group # WSCF112348

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF112348

| | | | |
|-----------|-----------|----------|----------|
| Sample # | 112348004 | Matrix | SOIL |
| SAF# | F11-064 | Sampled | 05/31/11 |
| Sample ID | B2BNL5 | Received | 05/31/11 |

| Test Performed | CAS # | Method | RQ | Result | TP Err | Units | DF | MDL | PQL | Analyzed |
|----------------------|---------|------------|----|--------|---------|-------|----|-----|-----|----------|
| Total Residue | | | | | | | | | | |
| Total Residue | | | | | | | | | | |
| Percent Solids | %SOLIDS | LA-519-412 | 97 | | percent | 1 | | | | 06/01/11 |

MDL = Minimum Detection B - Analyte < the RDL but \geq the IDL/MDL.
RQ = Result Qualifier C - Analyte was found in the Associated Blank. (Inorganic)
TP Err = Total Propagated D - Analyte was reported at a secondary dilution factor.
DF = Dilution Factor N - MS and/or MSD sample recovery outside control limits.
+ - Indicates more than nine qualifier U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

Quality Control Report

Attention Michael Neely
Department Inorganic
Associated Samples 112348003, 112348004

Group # WSCF112348

| QC Batch | 182694 | Test | ICP-2008 MS All possible metal | | | | | | | |
|-----------|-----------|----------------|--------------------------------|-------|---------|----------|-----|-----------|----|----------|
| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
| LCS | | | | | | | | | | |
| Manganese | 7439-96-5 | 403 | | mg/kg | 89.3 | 75 - 121 | | | | 06/03/11 |
| Nickel | 7440-02-0 | 53.1 | | mg/kg | 95.9 | 74 - 122 | | | | 06/03/11 |
| Silver | 7440-22-4 | 98.5 | | mg/kg | 98 | 83 - 127 | | | | 06/03/11 |
| Antimony | 7440-36-0 | 163 | | mg/kg | 181.4 | 62 - 205 | | | | 06/03/11 |
| Barium | 7440-39-3 | 297 | | mg/kg | 93.6 | 78 - 118 | | | | 06/03/11 |
| Beryllium | 7440-41-7 | 85.8 | | mg/kg | 96.3 | 77 - 120 | | | | 06/03/11 |
| Cadmium | 7440-43-9 | 65.3 | | mg/kg | 98.6 | 76 - 129 | | | | 06/03/11 |
| Chromium | 7440-47-3 | 69.6 | | mg/kg | 95.9 | 68 - 119 | | | | 06/03/11 |
| Cobalt | 7440-48-4 | 69.1 | | mg/kg | 95 | 77 - 122 | | | | 06/03/11 |
| Copper | 7440-50-8 | 60.9 | | mg/kg | 89.3 | 67 - 120 | | | | 06/03/11 |
| Vanadium | 7440-62-2 | 83.8 | | mg/kg | 101.5 | 67 - 122 | | | | 06/03/11 |
| Zinc | 7440-66-6 | 165 | | mg/kg | 93.6 | 73 - 131 | | | | 06/03/11 |
| Lead | 7439-92-1 | 124 | | mg/kg | 95.8 | 79 - 124 | | | | 06/03/11 |
| Mercury | 7439-97-6 | 7.45 | | mg/kg | 90.1 | 69 - 124 | | | | 06/03/11 |
| Strontium | 7440-24-6 | 52.6 | | mg/kg | 97.2 | 78 - 119 | | | | 06/03/11 |
| Thallium | 7440-28-0 | 125 | | mg/kg | 94.3 | 52 - 137 | | | | 06/03/11 |
| Tin | 7440-31-5 | 173 | | mg/kg | 100.6 | 84 - 130 | | | | 06/03/11 |
| Uranium | 7440-61-1 | 368 | | mg/kg | 92.4 | 86 - 113 | | | | 06/03/11 |
| Arsenic | 7440-38-2 | 125 | | mg/kg | 95.1 | 79 - 125 | | | | 06/03/11 |

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF112348

| Analyte | CAS # | Original Found | QC Found | Units | % Recov/Limits | RPD | RPD Limit | RQ | Analyzed |
|------------|-----------|----------------|--------------------|-------|----------------|-----|-----------|----|--------------|
| Selenium | 7782-49-2 | 157 | mg/kg | 98.1 | 82 - 133 | | | | 06/03/11 |
| MS | | | QC Sample #56862 | | | | | | |
| Manganese | 7439-96-5 | 46.6 | mg/kg | 47.8 | 70 - 130 | | | | 06/03/11 |
| Nickel | 7440-02-0 | 90.2 | mg/kg | 92.6 | 70 - 130 | | | | 06/03/11 |
| Silver | 7440-22-4 | 90.9 | mg/kg | 93.4 | 70 - 130 | | | | 06/03/11 |
| Antimony | 7440-36-0 | 85.5 | mg/kg | 87.8 | 70 - 130 | | | | 06/03/11 |
| Barium | 7440-39-3 | 91.7 | mg/kg | 94.2 | 70 - 130 | | | | 06/03/11 |
| Beryllium | 7440-41-7 | 88.5 | mg/kg | 90.9 | 70 - 130 | | | | 06/03/11 |
| Cadmium | 7440-43-9 | 91.6 | mg/kg | 94 | 70 - 130 | | | | 06/03/11 |
| Chromium | 7440-47-3 | 90.1 | mg/kg | 92.5 | 70 - 130 | | | | 06/03/11 |
| Cobalt | 7440-48-4 | 88.1 | mg/kg | 90.4 | 70 - 130 | | | | 06/03/11 |
| Copper | 7440-50-8 | 87.2 | mg/kg | 89.5 | 70 - 130 | | | | 06/03/11 |
| Vanadium | 7440-62-2 | 85.2 | mg/kg | 87.5 | 70 - 130 | | | | 06/03/11 |
| Zinc | 7440-66-6 | 80.7 | mg/kg | 82.9 | 70 - 130 | | | | 06/03/11 |
| Lead | 7439-92-1 | 90.5 | mg/kg | 92.9 | 70 - 130 | | | | 06/03/11 |
| Mercury | 7439-97-6 | 1.75 | mg/kg | 89.6 | 70 - 130 | | | | 06/03/11 |
| Strontium | 7440-24-6 | 88.2 | mg/kg | 90.5 | 70 - 130 | | | | 06/03/11 |
| Thallium | 7440-28-0 | 89.1 | mg/kg | 91.5 | 70 - 130 | | | | 06/03/11 |
| Tin | 7440-31-5 | 86.1 | mg/kg | 88.4 | 70 - 130 | | | | 06/03/11 |
| Uranium | 7440-61-1 | 92.8 | mg/kg | 95.3 | 70 - 130 | | | | 06/03/11 |
| Arsenic | 7440-38-2 | 89.7 | mg/kg | 92.1 | 70 - 130 | | | | 06/03/11 |
| Selenium | 7782-49-2 | 91.5 | mg/kg | 93.9 | 70 - 130 | | | | 06/03/11 |
| MSD | | | QC Sample #56863 | | | | | | |
| | | | Original 112317001 | | | | | | |
| | | | | | | | | | Paired 56862 |

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF112348

| Analyte | CAS # | Original Found | QC Found | Units | % Recov/Limits | RPD | RPD Limit | RQ | Analyzed |
|-----------|-----------|----------------|----------|-------|----------------|-------|-----------|----|----------|
| Manganese | 7439-96-5 | 68.3 | mg/kg | 69.6 | 70 - 130 | 37.10 | 30 | * | NX |
| Nickel | 7440-02-0 | 93.7 | mg/kg | 95.5 | 70 - 130 | 3.10 | 30 | | 06/03/11 |
| Silver | 7440-22-4 | 93.1 | mg/kg | 94.9 | 70 - 130 | 1.60 | 30 | | 06/03/11 |
| Antimony | 7440-36-0 | 86.2 | mg/kg | 87.9 | 70 - 130 | 0.10 | 30 | | 06/03/11 |
| Barium | 7440-39-3 | 86.8 | mg/kg | 88.5 | 70 - 130 | 6.20 | 30 | | 06/03/11 |
| Beryllium | 7440-41-7 | 94.8 | mg/kg | 96.6 | 70 - 130 | 6.10 | 30 | | 06/03/11 |
| Cadmium | 7440-43-9 | 93.3 | mg/kg | 95.2 | 70 - 130 | 1.30 | 30 | | 06/03/11 |
| Chromium | 7440-47-3 | 93.5 | mg/kg | 95.3 | 70 - 130 | 3.00 | 30 | | 06/03/11 |
| Cobalt | 7440-48-4 | 92.0 | mg/kg | 93.8 | 70 - 130 | 3.70 | 30 | | 06/03/11 |
| Copper | 7440-50-8 | 90.3 | mg/kg | 92 | 70 - 130 | 2.80 | 30 | | 06/03/11 |
| Vanadium | 7440-62-2 | 89.5 | mg/kg | 91.3 | 70 - 130 | 4.30 | 30 | | 06/03/11 |
| Zinc | 7440-66-6 | 82.2 | mg/kg | 83.8 | 70 - 130 | 1.10 | 30 | | 06/03/11 |
| Lead | 7439-92-1 | 92.0 | mg/kg | 93.8 | 70 - 130 | 1.00 | 30 | | 06/03/11 |
| Mercury | 7439-97-6 | 1.77 | mg/kg | 90.2 | 70 - 130 | 0.70 | 30 | | 06/03/11 |
| Strontium | 7440-24-6 | 89.1 | mg/kg | 90.8 | 70 - 130 | 0.30 | 30 | | 06/03/11 |
| Thallium | 7440-28-0 | 91.5 | mg/kg | 93.3 | 70 - 130 | 1.90 | 30 | | 06/03/11 |
| Tin | 7440-31-5 | 88.3 | mg/kg | 90 | 70 - 130 | 1.80 | 30 | | 06/03/11 |
| Uranium | 7440-61-1 | 94.1 | mg/kg | 95.9 | 70 - 130 | 0.60 | 30 | | 06/03/11 |
| Arsenic | 7440-38-2 | 91.9 | mg/kg | 93.7 | 70 - 130 | 1.70 | 30 | | 06/03/11 |
| Selenium | 7782-49-2 | 91.6 | mg/kg | 93.4 | 70 - 130 | 0.50 | 30 | | 06/03/11 |

Quality Control Report

Michael Neely
Organic, Semivolatiles

Group # WSCF112348

| QC Batch | 182864 | Associated Samples | 112348003, 112348004 | Test | PCBs by EPA SW-846 Method 8082 |
|----------|--------|--------------------|----------------------|------|--------------------------------|
|----------|--------|--------------------|----------------------|------|--------------------------------|

| | | | | | | |
|----------------------------|------------|-----|---------------------------|-------|----------|--------------------------|
| Aroclor-1254 MS | 11097-69-1 | 84 | ug/kg QC Sample #57226 | 104.9 | 75 - 128 | 06/07/11 |
| Aroclor-1254 MSD | 11097-69-1 | 390 | ug/kg QC Sample #57227 | 108 | 62 - 140 | 06/07/11 |
| Aroclor-1254 | 11097-69-1 | 360 | ug/kg | 98 | 62 - 140 | Paired 57226 06/07/11 |

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF112348

| QC Batch | Associated Samples | 182963 | 112348003, 112348004 | Test | ICP-6010 - All possible metals | | | | |
|-------------------------|--------------------|----------------|----------------------|-------|--------------------------------|----------|-----------|----|----------|
| Analyte | CAS # | Original Found | QC Found | Units | % Recov Limits | RPD | RPD Limit | RQ | Analyzed |
| BLANK | | | | | | | | | |
| QC Sample #57263 | | | | | | | | | |
| Lithium | 7439-93-2 | <5.0 | | ug/L | | | | U | 06/07/11 |
| Boron | 7440-42-8 | <13 | | ug/L | | | | U | 06/07/11 |
| LCS | | | | | | | | | |
| QC Sample #57264 | | | | | | | | | |
| Lithium | 7439-93-2 | 6.70 | | mg/kg | 79.4 | 48 - 119 | | | 06/07/11 |
| Boron | 7440-42-8 | 126 | | mg/kg | 109.6 | 76 - 151 | | | 06/07/11 |
| MS | | | | | | | | | |
| QC Sample #57265 | | | | | | | | | |
| Lithium | 7439-93-2 | 96.2 | | mg/kg | 96.4 | 75 - 125 | | | 06/07/11 |
| Boron | 7440-42-8 | 185 | | mg/kg | 92.6 | 75 - 125 | | | 06/07/11 |

Quality Control Report

Attention Michael Neely
Department Inorganic
Associated Samples 112348003, 112348004

Group # WSCF112348

| QC Batch | 183054 | Test | Hexavalent chromium | | | | | | | |
|---------------------|------------|----------------|---------------------|------------------|-----------|----------|-----|-----------|----|----------|
| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
| BLANK | | | | | | | | | | |
| Hexavalent chromium | 18540-29-9 | <0.10 | ug/g | QC Sample #57393 | | | | | | 06/03/11 |
| LCS | | | | | | | | | | |
| Hexavalent chromium | 18540-29-9 | 3.90 | ug/g | 97.6 | | 80 - 120 | | | | 06/03/11 |
| DUP | | | | | | | | | | |
| Hexavalent chromium | 18540-29-9 | 0.0378 | ug/g | QC Sample #57394 | | | | | | 06/03/11 |
| MS | | | | Original | 112326012 | | | | | |
| Hexavalent chromium | 18540-29-9 | 3.57 | ug/g | 89.7 | | 75 - 125 | | | | 06/03/11 |
| PSTSPK | | | | | | | | | | |
| Hexavalent chromium | 18540-29-9 | 0.0454 | ug/g | 85.4 | | 85 - 115 | | | | 06/03/11 |
| IMS | | | | | | | | | | |
| Hexavalent chromium | 18540-29-9 | 319 | ug/g | 95.6 | | 75 - 125 | | | | 06/03/11 |

Quality Control Report

Attention Michael Neely
Department Organic, Semivolatiles

Group # WSCF112348

QC Batch 183058
Associated Samples 112348003, 112348004

Test SW-846 8270D Semivolatiles (PAHSIM)

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|-------------------------|----------|----------------|----------|-------|---------|--------|-----|-----------|----|----------|
| BLANK | | | | | | | | | | |
| Naphthalene | 91-20-3 | <200 | | ug/kg | | | | | | 06/08/11 |
| Acenaphthylene | 208-96-8 | <200 | | ug/kg | | | | | | 06/08/11 |
| Acenaphthene | 83-32-9 | <200 | | ug/kg | | | | | | 06/08/11 |
| Fluorene | 86-73-7 | <200 | | ug/kg | | | | | | 06/08/11 |
| Phenanthrene | 85-01-8 | <200 | | ug/kg | | | | | | 06/08/11 |
| Anthracene | 120-12-7 | <200 | | ug/kg | | | | | | 06/08/11 |
| Fluoranthene | 206-44-0 | <200 | | ug/kg | | | | | | 06/08/11 |
| Pyrene | 129-00-0 | <200 | | ug/kg | | | | | | 06/08/11 |
| Benzo(a)anthracene | 56-55-3 | <200 | | ug/kg | | | | | | 06/08/11 |
| Chrysene | 218-01-9 | <200 | | ug/kg | | | | | | 06/08/11 |
| Benzo(b)fluoranthene | 205-99-2 | <200 | | ug/kg | | | | | | 06/08/11 |
| Benzo(k)fluoranthene | 207-08-9 | <200 | | ug/kg | | | | | | 06/08/11 |
| Benzo(a)pyrene | 50-32-8 | <200 | | ug/kg | | | | | | 06/08/11 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | <200 | | ug/kg | | | | | | 06/08/11 |
| Dibenz(o,a,h)anthracene | 53-70-3 | <200 | | ug/kg | | | | | | 06/08/11 |
| Benzo(g,h,i)perylene | 191-24-2 | <200 | | ug/kg | | | | | | 06/08/11 |
| LCS | | | | | | | | | | |
| QC Sample #57411 | | | | | | | | | | |

Quality Control Report

Attention Michael Neely
Department Organic, Semivolatiles

Group # WSCF112348

| Analyte | CAS# | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|----------------|----------|----------------|----------|-------|----------|----------|----------|-----------|--------|----------|
| Naphthalene | 91-20-3 | 6100 | ug/kg | 101.1 | 50 - 140 | 06/08/11 | | | | |
| Acenaphthene | 83-32-9 | 6000 | ug/kg | 99.7 | 75 - 121 | 06/08/11 | | | | |
| Fluorene | 86-73-7 | 6600 | ug/kg | 110.1 | 50 - 140 | 06/08/11 | | | | |
| Anthracene | 120-12-7 | 6000 | ug/kg | 100.5 | 50 - 140 | 06/08/11 | | | | |
| Pyrene | 129-00-0 | 6300 | ug/kg | 104.4 | 78 - 134 | 06/08/11 | | | | |
| Benzo(a)pyrene | 50-32-8 | 5900 | ug/kg | 99.1 | 50 - 140 | 06/08/11 | | | | |
| MS | | | | | | | | | | |
| Naphthalene | 91-20-3 | <200 | 29000 | ug/kg | 100.2 | 50 - 140 | 06/08/11 | | | |
| Acenaphthene | 83-32-9 | <200 | 29000 | ug/kg | 99.6 | 75 - 121 | 06/08/11 | | | |
| Fluorene | 86-73-7 | <200 | 32000 | ug/kg | 109.6 | 50 - 140 | 06/08/11 | | | |
| Anthracene | 120-12-7 | <200 | 29000 | ug/kg | 99.7 | 50 - 140 | 06/08/11 | | | |
| Pyrene | 129-00-0 | <200 | 29000 | ug/kg | 98.4 | 78 - 124 | 06/08/11 | | | |
| Benzo(a)pyrene | 50-32-8 | <200 | 27000 | ug/kg | 93.5 | 50 - 140 | 06/08/11 | | | |
| MSD | | | | | | | | | | |
| Naphthalene | 91-20-3 | <200 | 30000 | ug/kg | 102.7 | 50 - 140 | 2.50 | 30 | Paired | 57412 |
| Acenaphthene | 83-32-9 | <200 | 30000 | ug/kg | 101.7 | 75 - 121 | 2.10 | 30 | | 06/08/11 |
| Fluorene | 86-73-7 | <200 | 33000 | ug/kg | 112.3 | 50 - 140 | 2.40 | 30 | | 06/08/11 |
| Anthracene | 120-12-7 | <200 | 31000 | ug/kg | 105 | 50 - 140 | 5.20 | 30 | | 06/08/11 |
| Pyrene | 129-00-0 | <200 | 30000 | ug/kg | 100.9 | 78 - 124 | 2.50 | 30 | | 06/08/11 |
| Benzo(a)pyrene | 50-32-8 | <200 | 29000 | ug/kg | 98 | 50 - 140 | 4.70 | 30 | | 06/08/11 |

Quality Control Report

Attention Michael Neely
Department Organic, Semivolatiles

Group # WSCF112348

QC Batch 183060
Associated Samples 112348003, 112348004

Test Extractable Diesel and Petroleum

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|------------|-----------|----------------|----------|------------------|---------|----------|------|-----------|--------------|----------|
| BLANK | | | | | | | | | | |
| Diesel | TPHDIESEL | <4 | | mg/kg | | | | | U | 06/07/11 |
| Kerosene | TPHKEROSE | <4 | | mg/kg | | | | | U | 06/07/11 |
| LCS | | | | QC Sample #57415 | | | | | | |
| Diesel | TPHDIESEL | 110 | | mg/kg | 107.9 | 70 - 130 | | | | 06/07/11 |
| MS | | | | QC Sample #57416 | | | | | | |
| Diesel | TPHDIESEL | <4 | 530 | mg/kg | 111.8 | 70 - 130 | | | | 06/07/11 |
| MSD | | | | QC Sample #57417 | | | | | | |
| Diesel | TPHDIESEL | <4 | 570 | mg/kg | 115.3 | 70 - 130 | 3.10 | 30 | Paired 57416 | 06/07/11 |

Quality Control Report

Attention Michael Neely
 Department Inorganic
 Associated Samples 112348003, 112348004

| | | | | | | | Group # | WSCF112348 | | |
|---------------------|------------|----------------|----------|-------|---------|--------------------------------------|---------|------------|----|----------|
| QC Batch | 183115 | Test | | | | Anions by Ion Chromatography (Solid) | | | | |
| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
| BLANK | | | | | | | | | | |
| Fluoride | 16984-48-8 | <0.044 | ug/mL | | | | U | | | 06/06/11 |
| Nitrate-N | NO3-N | <9.7E-3 | ug/mL | | | | U | | | 06/06/11 |
| LCS | | | | | | | | | | |
| Fluoride | 16984-48-8 | 0.914 | ug/mL | | 92.3 | 90 - 110 | | | | 06/06/11 |
| Nitrate-N | NO3-N | 0.873 | ug/mL | | 98.6 | 90 - 110 | | | | 06/06/11 |
| MS | | | | | | | | | | |
| Fluoride | 16984-48-8 | <1.9 | 20.3 | mg/kg | 80.9 | 80 - 120 | | | | 06/06/11 |
| Nitrate-N | NO3-N | 1.90 | 21.5 | mg/kg | 95.7 | 80 - 120 | | | | 06/06/11 |
| MSD | | | | | | | | | | |
| Fluoride | 16984-48-8 | <1.9 | 20.1 | mg/kg | 80.1 | 80 - 120 | 1.00 | 30 | | 06/06/11 |
| Nitrate-N | NO3-N | 1.90 | 21.3 | mg/kg | 94.7 | 80 - 120 | 1.10 | 30 | | 06/06/11 |
| DUP | | | | | | | | | | |
| Fluoride | 16984-48-8 | <1.9 | <1.8 | mg/kg | | | 0.00 | 30 | U | 06/06/11 |
| Nitrate-N | NO3-N | 1.90 | 1.96 | mg/kg | | | 3.20 | 30 | B | 06/06/11 |
| Paired 57601 | | | | | | | | | | |
| Fluoride | 16984-48-8 | <1.9 | <1.8 | mg/kg | | | 0.00 | 30 | U | 06/06/11 |
| Nitrate-N | NO3-N | 1.90 | 1.96 | mg/kg | | | 3.20 | 30 | B | 06/06/11 |

Quality Control Report

Attention Michael Neely
Department Inorganic
Associated Samples 112348003, 112348004

Group # WSCF112348

| QC Batch | 182694 | Test | ICP-2008 MS All possible metal | | | | | | | |
|-------------------------|-----------|----------------|--------------------------------|-------|---------|--------|-----|-----------|----|----------|
| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
| BLANK | | | | | | | | | | |
| QC Sample #56860 | | | | | | | | | | |
| Manganese | 7439-96-5 | <0.10 | ug/L | | | | | | | 06/03/11 |
| Nickel | 7440-02-0 | <0.20 | ug/L | | | | | | | 06/03/11 |
| Silver | 7440-22-4 | <0.10 | ug/L | | | | | | | 06/03/11 |
| Antimony | 7440-36-0 | <0.30 | ug/L | | | | | | | 06/03/11 |
| Barium | 7440-39-3 | <0.20 | ug/L | | | | | | | 06/03/11 |
| Beryllium | 7440-41-7 | <0.10 | ug/L | | | | | | | 06/03/11 |
| Cadmium | 7440-43-9 | <0.10 | ug/L | | | | | | | 06/03/11 |
| Chromium | 7440-47-3 | <0.50 | ug/L | | | | | | | 06/03/11 |
| Cobalt | 7440-48-4 | <0.050 | ug/L | | | | | | | 06/03/11 |
| Copper | 7440-50-8 | <0.10 | ug/L | | | | | | | 06/03/11 |
| Vanadium | 7440-62-2 | <0.20 | ug/L | | | | | | | 06/03/11 |
| Zinc | 7440-66-6 | <0.80 | ug/L | | | | | | | 06/03/11 |
| Lead | 7439-92-1 | <0.10 | ug/L | | | | | | | 06/03/11 |
| Mercury | 7439-97-6 | <0.050 | ug/L | | | | | | | 06/03/11 |
| Strontium | 7440-24-6 | <0.10 | ug/L | | | | | | | 06/03/11 |
| Thallium | 7440-28-0 | <0.050 | ug/L | | | | | | | 06/03/11 |
| Tin | 7440-31-5 | <0.050 | ug/L | | | | | | | 06/03/11 |
| Uranium | 7440-61-1 | <0.050 | ug/L | | | | | | | 06/03/11 |
| Arsenic | 7440-38-2 | <0.40 | ug/L | | | | | | | 06/03/11 |

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF112348

| Analyte | CAS # | Original Found | QC Found | Units | % Recov/Limits | RPD | RPD Limit | RQ | Analyzed |
|----------|-----------|----------------|----------|-------|----------------|-----|-----------|----|----------|
| Selenium | 7782-49-2 | <0.30 | | ug/L | | U | | | 06/03/11 |

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF112348

QC Batch 182700
Associated Samples 112348003, 112348004

Test Americium/Curium (AEA)

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|---------------------------|------------|----------------|----------|------------|---------|----------|-----|-----------|----|----------|
| BLANK | | | | | | | | | | |
| Americium-241 | 14596-10-2 | 0.025 | | pCi/g | | | | | | 06/07/11 |
| Plutonium-238 | 13981-16-3 | 0.0090 | | pCi/g | | | | | | 06/07/11 |
| Uranium-234 | U-2333/234 | 0.022 | | pCi/g | | | | | | 06/07/11 |
| Plutonium-239/240 | PU-239/240 | 0.013 | | pCi/g | | | | | | 06/07/11 |
| Uranium-235 | 15117-96-1 | 0.015 | | pCi/g | | | | | | 06/07/11 |
| Uranium-238 | U-238 | 0.023 | | pCi/g | | | | | | 06/07/11 |
| LCS | | | | | | | | | | |
| Americium-241 | 14596-10-2 | 25 | | pCi/sample | 113.2 | 80 - 120 | | | | 06/07/11 |
| Uranium-234 | U-2333/234 | 36 | | pCi/sample | 108.3 | 80 - 120 | | | | 06/07/11 |
| Plutonium-239/240 | PU-239/240 | 24 | | pCi/sample | 102.4 | 80 - 120 | | | | 06/07/11 |
| DUP | | | | | | | | | | |
| Americium-241 | 14596-10-2 | 0.062 | 0.0050 | pCi/g | 169.20 | 30 | * | U | | 06/07/11 |
| Plutonium-238 | 13981-16-3 | 0.022 | -5.4E-3 | pCi/g | 338.50 | 30 | * | U | | 06/07/11 |
| Plutonium-239/240 | PU-239/240 | 0.026 | 0.0090 | pCi/g | 94.10 | 30 | * | U | | 06/07/11 |
| Uranium-234 | U-2333/234 | 0.16 | 0.15 | pCi/g | 6.50 | 30 | | | | 06/07/11 |
| Uranium-235 | 15117-96-1 | 0.018 | 0.015 | pCi/g | 18.20 | 30 | | | | 06/07/11 |
| Uranium-238 | U-238 | 0.17 | 0.18 | pCi/g | 11.80 | 30 | | | | 06/07/11 |
| QC Sample #56886 | | | | | | | | | | |
| Americium-241 | 14596-10-2 | 0.025 | | pCi/g | 169.20 | 30 | * | U | | 06/07/11 |
| Uranium-234 | U-2333/234 | 0.022 | | pCi/g | 338.50 | 30 | * | U | | 06/07/11 |
| Plutonium-239/240 | PU-239/240 | 0.026 | | pCi/g | 94.10 | 30 | * | U | | 06/07/11 |
| QC Sample #56887 | | | | | | | | | | |
| Americium-241 | 14596-10-2 | 25 | | pCi/sample | 113.2 | 80 - 120 | | | | 06/07/11 |
| Uranium-234 | U-2333/234 | 36 | | pCi/sample | 108.3 | 80 - 120 | | | | 06/07/11 |
| Plutonium-239/240 | PU-239/240 | 24 | | pCi/sample | 102.4 | 80 - 120 | | | | 06/07/11 |
| Original 112348003 | | | | | | | | | | |
| Americium-241 | 14596-10-2 | 0.062 | 0.0050 | pCi/g | 169.20 | 30 | * | U | | 06/07/11 |
| Plutonium-238 | 13981-16-3 | 0.022 | -5.4E-3 | pCi/g | 338.50 | 30 | * | U | | 06/07/11 |
| Plutonium-239/240 | PU-239/240 | 0.026 | 0.0090 | pCi/g | 94.10 | 30 | * | U | | 06/07/11 |
| Uranium-234 | U-2333/234 | 0.16 | 0.15 | pCi/g | 6.50 | 30 | | | | 06/07/11 |
| Uranium-235 | 15117-96-1 | 0.018 | 0.015 | pCi/g | 18.20 | 30 | | | | 06/07/11 |
| Uranium-238 | U-238 | 0.17 | 0.18 | pCi/g | 11.80 | 30 | | | | 06/07/11 |

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF112348

| QC Batch | Associated Samples | 182709 | 112348003, 112348004 | Test | Gamma Energy Analysis-general | | | | | |
|-------------------------|--------------------|--------------------|----------------------|-------|-------------------------------|--------|-----|-----------|----|----------|
| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
| IBLANK | | | | | | | | | | |
| Cesium-137 | 10045-97-3 | 3.2E-4 | pCi/g | | | | | | | 06/01/11 |
| Cobalt-60 | 10198-40-0 | 2.1E-3 | pCi/g | | | | | | | 06/01/11 |
| Europium-152 | 14683-23-9 | -2.7E-3 | pCi/g | | | | | | | 06/01/11 |
| Europium-154 | 15585-10-1 | -0.0040 | pCi/g | | | | | | | 06/01/11 |
| Europium-155 | 14391-16-3 | -0.011 | pCi/g | | | | | | | 06/01/11 |
| LCS | | | | | | | | | | |
| Cesium-137 | 10045-97-3 | 6500 | pCi/sample | 107.3 | 80 - 120 | | | | | 06/01/11 |
| Cobalt-60 | 10198-40-0 | 10000 | pCi/sample | 104.1 | 80 - 120 | | | | | 06/01/11 |
| DUP | | | | | | | | | | |
| Cesium-137 | 10045-97-3 | -0.020 | pCi/g | | | | | | | 06/01/11 |
| Cobalt-60 | 10198-40-0 | -5.7E-3 | pCi/g | | | | | | | 06/01/11 |
| Europium-152 | 14683-23-9 | -7.5E-3 | pCi/g | | | | | | | 06/01/11 |
| Europium-154 | 15585-10-1 | 1.8E-4 | pCi/g | | | | | | | 06/01/11 |
| Europium-155 | 14391-16-3 | 0.077 | pCi/g | | | | | | | 06/01/11 |
| QC Sample #56921 | | | | | | | | | | |
| Cesium-137 | 10045-97-3 | -85.70 | 30 | * | U | | | | | |
| Cobalt-60 | 10198-40-0 | 436.40 | 30 | * | U | | | | | |
| Europium-152 | 14683-23-9 | -158.10 | 30 | * | U | | | | | |
| Europium-154 | 15585-10-1 | -204.00 | 30 | * | U | | | | | |
| Europium-155 | 14391-16-3 | 60.60 | 30 | * | U | | | | | |
| QC Sample #56923 | | | | | | | | | | |
| Cesium-137 | 10045-97-3 | Original 112326021 | | | | | | | | |
| Cobalt-60 | 10198-40-0 | | | | | | | | | |
| Europium-152 | 14683-23-9 | | | | | | | | | |
| Europium-154 | 15585-10-1 | | | | | | | | | |
| Europium-155 | 14391-16-3 | | | | | | | | | |

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF112348

| QC Batch | CAS # | Test | Strontium 89/90 (GPC/GEA) | | | | | |
|-------------------------------|----------------|------------------|---------------------------|--------------------|--------|-----------|----|----------|
| 182716 | | | | | | | | |
| Associated Samples | Original Found | QC Found | Units | % Recov Limits | RPD | RPD Limit | RQ | Analyzed |
| 112348003, 112348004 | | | | | | | | |
| BLANK | | QC Sample #56943 | | | | | | |
| Strontium-89/90 LCS | SR-RAD | -0.068 | pCi/g | QC Sample #56944 | | | U | 06/03/11 |
| Strontium-89/90 DUP | SR-RAD | 30 | pCi/g | QC Sample #56945 | 109.9 | 80 - 120 | | 06/03/11 |
| Strontium-89/90 | SR-RAD | 1.8 | -0.14 | Original 112348003 | 233.70 | 30 | * | UX |
| | | | | QC Sample #56944 | | | | 06/03/11 |

Quality Control Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF112348

QC Batch 182718
Associated Samples 112348001, 112348002

Test SW-846 8260B Volatiles, separate prep

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | RPD Limits | RPD | RPD Limit | RQ | Analyzed |
|----------------------|-----------|----------------|----------|-------|---------|------------|-----|-----------|----|----------|
| BLANK | | | | | | | | | | |
| 1,1-Dichloroethene | 75-35-4 | <1 | | ug/kg | | | | | | 06/03/11 |
| Trichloroethene | 79-01-6 | <1 | | ug/kg | | | | | | 06/03/11 |
| Benzene | 71-43-2 | <1 | | ug/kg | | | | | | 06/03/11 |
| Toluene | 108-88-3 | <1 | | ug/kg | | | | | | 06/03/11 |
| Chlorobenzene | 108-90-7 | <1 | | ug/kg | | | | | | 06/03/11 |
| Total Xylenes | 1330-20-7 | <1 | | ug/kg | | | | | | 06/03/11 |
| Carbon tetrachloride | 56-23-5 | <1 | | ug/kg | | | | | | 06/03/11 |
| LCS | | | | | | | | | | |
| 1,1-Dichloroethene | 75-35-4 | 22 | | ug/kg | 88.4 | 50 - 131 | | | | 06/03/11 |
| Trichloroethene | 79-01-6 | 23 | | ug/kg | 92.5 | 66 - 119 | | | | 06/03/11 |
| Benzene | 71-43-2 | 22 | | ug/kg | 90 | 73 - 123 | | | | 06/03/11 |
| Toluene | 108-88-3 | 23 | | ug/kg | 91.8 | 77 - 128 | | | | 06/03/11 |
| Chlorobenzene | 108-90-7 | 23 | | ug/kg | 90.6 | 81 - 126 | | | | 06/03/11 |
| MS | | | | | | | | | | |
| 1,1-Dichloroethene | 75-35-4 | 16 | | ug/kg | 87.4 | 75 - 125 | | | | 06/03/11 |
| Trichloroethene | 79-01-6 | 20 | | ug/kg | 105.8 | 75 - 125 | | | | 06/03/11 |
| Benzene | 71-43-2 | 18 | | ug/kg | 94.8 | 75 - 125 | | | | 06/03/11 |

Quality Control Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF112348

| Analyte | CAS # | Original Found | QC Found | Units | % Recov/Limits | RPD | RPD Limit | RQ | Analyzed |
|---------------------------|----------|----------------|----------|-------|----------------|------|-----------|----|----------|
| MSD | | | | | | | | | |
| Toluene | 108-88-3 | 18 | ug/kg | 95.8 | 75 - 125 | | | | 06/03/11 |
| Chlorobenzene | 108-90-7 | 18 | ug/kg | 94.4 | 75 - 125 | | | | 06/03/11 |
| QC Sample #56949 | | | | | | | | | |
| Original 112326010 | | | | | | | | | |
| 1,1-Dichloroethene | 75-35-4 | 22 | ug/kg | 84.6 | 75 - 125 | 3.20 | 30 | | 06/03/11 |
| Trichloroethene | 79-01-6 | 27 | ug/kg | 105.3 | 75 - 125 | 0.50 | 30 | | 06/03/11 |
| Benzene | 71-43-2 | 24 | ug/kg | 94.8 | 75 - 125 | 0.00 | 30 | | 06/03/11 |
| Toluene | 108-88-3 | 25 | ug/kg | 96.9 | 75 - 125 | 1.10 | 30 | | 06/03/11 |
| Chlorobenzene | 108-90-7 | 25 | ug/kg | 96.2 | 75 - 125 | 1.90 | 30 | | 06/03/11 |
| Paired 56948 | | | | | | | | | |

Quality Control Report

Attention Michael Neely
Department Radiochemistry
Associated Samples 112348003, 112348004

Group # WSCF112348

QC Batch 182749
Test TC99 by Liquid Scintillation

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed | |
|-----------------------------|------------|----------------|----------|--------------------|---------|----------|---------|-----------|----|----------|----------|
| BLANK | | | | | | | | | | | |
| Technetium-99 LCS | 14133-76-7 | -0.10 | pCi/g | QC Sample #57089 | | | | | U | 06/08/11 | |
| Technetium-99 DUP | 14133-76-7 | 8.3 | pCi/g | QC Sample #57090 | 99.1 | 80 - 120 | | | | 06/08/11 | |
| Technetium-99 MS | 14133-76-7 | 0.0 | pCi/g | QC Sample #57091 | | | -200.00 | 30 | * | U | 06/08/11 |
| Technetium-99 | 14133-76-7 | 33 | pCi/g | Original 112326012 | 102.2 | 75 - 125 | | | | | 06/08/11 |

Quality Control Report

Attention Michael Neely
Department Organic, Semivolatiles

Group # WSCF112348

QC Batch 182864
Associated Samples 112348003, 112348004

Test PCBs by EPA SW-846 Method 8082

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|--------------|------------|----------------|----------|-------|---------|--------|-----|-----------|----|----------|
| BLANK | | | | | | | | | | |
| Aroclor-1016 | 12674-11-2 | <4 | | ug/kg | | | U | | | 06/07/11 |
| Aroclor-1221 | 11104-28-2 | <8 | | ug/kg | | | U | | | 06/07/11 |
| Aroclor-1254 | 11097-69-1 | <4 | | ug/kg | | | U | | | 06/07/11 |

Quality Control Report

Attention Michael Neely
Department Radiochemistry
Associated Samples 112348003, 112348004

Group # WSCF112348

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|----------------------|------------|----------------|----------|-------|--------------------|----------|-----|-----------|----|----------|
| SAMPLE | | | | | | | | | | |
| Uranium-232 Tracer | 14158-29-3 | | | | 80.6 | 25 - 105 | | | | 06/07/11 |
| Americium-243 Tracer | 14993-75-0 | | | | 88.6 | 25 - 105 | | | | 06/07/11 |
| Plutonium-242 Tracer | 13982-10-0 | | | | 89.2 | 25 - 105 | | | | 06/07/11 |
| SAMPLE | | | | | | | | | | |
| Uranium-232 Tracer | 14158-29-3 | | | | 92.8 | 25 - 105 | | | | 06/07/11 |
| Americium-243 Tracer | 14993-75-0 | | | | 81.5 | 25 - 105 | | | | 06/07/11 |
| Plutonium-242 Tracer | 13982-10-0 | | | | 85.3 | 25 - 105 | | | | 06/07/11 |
| BLANK | | | | | | | | | | |
| Uranium-232 Tracer | 14158-29-3 | | | | 85.8 | 25 - 105 | | | | 06/07/11 |
| Americium-243 Tracer | 14993-75-0 | | | | 78.2 | 25 - 105 | | | | 06/07/11 |
| Plutonium-242 Tracer | 13982-10-0 | | | | 89.1 | 25 - 105 | | | | 06/07/11 |
| LCS | | | | | | | | | | |
| Uranium-232 Tracer | 14158-29-3 | | | | 61.8 | 25 - 105 | | | | 06/07/11 |
| Americium-243 Tracer | 14993-75-0 | | | | 80.1 | 25 - 105 | | | | 06/07/11 |
| Plutonium-242 Tracer | 13982-10-0 | | | | 87.9 | 25 - 105 | | | | 06/07/11 |
| DUP | | | | | | | | | | |
| Uranium-232 Tracer | 14158-29-3 | | | | QC Sample #56888 | | | | | |
| Americium-243 Tracer | 14993-75-0 | | | | Original 112348003 | | | | | |
| Plutonium-242 Tracer | 13982-10-0 | | | | | | | | | |

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF112348

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|----------------------|------------|----------------|----------|-------|---------|----------|------|-----------|----|----------|
| Uranium-232 Tracer | 14158-29-3 | | | | 85.5 | 25 - 105 | 0.00 | | | 06/07/11 |
| Americium-243 Tracer | 14993-75-0 | | | | 104.7 | 25 - 105 | 2.40 | | | 06/07/11 |
| Plutonium-242 Tracer | 13982-10-0 | | | | 86.5 | 25 - 105 | 0.00 | | | 06/07/11 |

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF112348

QC Batch 182716
Associated Samples 112348003, 112348004

Test Strontium 89/90 (GPC/GEA)

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|-------------------------------|------------|----------------|----------|--------------------|---------|----------|-----|-----------|----|----------|
| SAMPLE | | | | | | | | | | |
| Strontium-85 SAMPLE | 13967-73-2 | | | Sample #112348003 | 70.6 | 25 - 105 | | | | 06/03/11 |
| Strontium-85 BLANK | 13967-73-2 | | | Sample #112348004 | 75.4 | 25 - 105 | | | | 06/03/11 |
| Strontium-85 LCS | 13967-73-2 | | | QC Sample #56943 | 83.6 | 25 - 105 | | | | 06/03/11 |
| Strontium-85 DUP | 13967-73-2 | | | QC Sample #56945 | 78.1 | 25 - 105 | | | | 06/03/11 |
| Strontium-85 | | | | Original 112348003 | 78.5 | 25 - 105 | | | | 06/03/11 |
| | | | | | 10.50 | | | | | |

Quality Control Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF112348

| QC Batch | 182718 | Test | SW-846 8260B Volatiles, separate prep | | | | | | | |
|-----------------------|------------|----------------|---------------------------------------|-------|---------|--------|-----|-----------|----|----------|
| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
| SAMPLE | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | | | | | | |
| Toluene-d8 | 2037-26-5 | | | | | | | | | |
| 4-Bromofluorobenzene | 460-00-4 | | | | | | | | | |
| SAMPLE | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | | | | | | |
| Toluene-d8 | 2037-26-5 | | | | | | | | | |
| 4-Bromofluorobenzene | 460-00-4 | | | | | | | | | |
| BLANK | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | | | | | | |
| Toluene-d8 | 2037-26-5 | | | | | | | | | |
| 4-Bromofluorobenzene | 460-00-4 | | | | | | | | | |
| LCS | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | | | | | | |
| Toluene-d8 | 2037-26-5 | | | | | | | | | |

Quality Control Report

**Attention Michael Neely
Department Organic, Volatiles**

Group # WSCF112348

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | Limit | RQ | Analyzed | |
|-----------------------|------------|----------------|------------------|-------|----------|-----------|-------|----------|-------|----------|----------|
| 4-Bromofluorobenzene | 460-00-4 | | | | 98.5 | 66 - 125 | | | | 06/03/11 | |
| MS | | | QC Sample #56948 | | | | | | | | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | Original | 112326010 | | | | 06/03/11 | |
| Toluene-d8 | 2037-26-5 | | | | | | 100.1 | 77 - 137 | | 06/03/11 | |
| 4-Bromofluorobenzene | 460-00-4 | | | | 97.2 | 78 - 122 | | | | 06/03/11 | |
| MSD | | | QC Sample #56949 | | | | 98.6 | 66 - 125 | | 06/03/11 | |
| 1,2-Dichloroethane-d4 | 17060-07-0 | | | | Original | 112326010 | | | | 06/03/11 | |
| Toluene-d8 | 2037-26-5 | | | | | | 99.2 | 77 - 137 | 0.90 | 30 | 06/03/11 |
| 4-Bromofluorobenzene | 460-00-4 | | | | 97.3 | 78 - 122 | | | 0.10 | 30 | 06/03/11 |
| | | | | | 98.1 | 66 - 125 | | | 0.50 | 30 | 06/03/11 |
| | | | | | | | | Paired | 56948 | | |

Quality Control Report

Attention Michael Neely
Department Organic, Semivolatiles

Group # WSCF112348

| | |
|--------------------|----------------------|
| QC Batch | 182864 |
| Associated Samples | 112348003, 112348004 |

Test PCBs by EPA SW-846 Method 8082

PCBs by EPA SW-846 Method 8082

Quality Control Report

Attention Michael Neely
Department Organic, Semivolatiles

Group # WSCF112348

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|----------------------|-----------|----------------|----------|-------|---------|----------|------|-----------|----|----------|
| Tetrachloro-m-xylene | 877-09-8 | | | | 95.2 | 51 - 120 | 6.20 | | | 06/07/11 |
| Decachlorobiphenyl | 2051-24-3 | | | | 114.1 | 66 - 126 | 3.60 | | | 06/07/11 |

Quality Control Report

Attention Michael Neely
Department Organic, Semivolatiles

| | | | |
|--------------------|----------------------|------|-------------------------------------|
| QC Batch | 183058 | Test | SW-846 8270D Semivolatiles (PAHSIM) |
| Associated Samples | 112348003, 112348004 | | |

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|--------------------|-------|----------------|----------|-------|---------|--------|-----|-----------|----|----------|
| SAMPLE | | | | | | | | | | |
| Sample #112348003 | | | | | | | | | | |
| Nitrobenzene-d5 | | | | | | | | | | |
| 4165-60-0 | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | | | | | | |
| 321-60-8 | | | | | | | | | | |
| Terphenyl-d14 | | | | | | | | | | |
| 98904-43-9 | | | | | | | | | | |
| SAMPLE | | | | | | | | | | |
| Sample #112348004 | | | | | | | | | | |
| Nitrobenzene-d5 | | | | | | | | | | |
| 4165-60-0 | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | | | | | | |
| 321-60-8 | | | | | | | | | | |
| Terphenyl-d14 | | | | | | | | | | |
| 98904-43-9 | | | | | | | | | | |
| BLANK | | | | | | | | | | |
| QC Sample #57410 | | | | | | | | | | |
| Nitrobenzene-d5 | | | | | | | | | | |
| 4165-60-0 | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | | | | | | |
| 321-60-8 | | | | | | | | | | |
| Terphenyl-d14 | | | | | | | | | | |
| 98904-43-9 | | | | | | | | | | |
| LCS | | | | | | | | | | |
| QC Sample #57411 | | | | | | | | | | |
| Nitrobenzene-d5 | | | | | | | | | | |
| 4165-60-0 | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | | | | | | |
| 321-60-8 | | | | | | | | | | |
| Terphenyl-d14 | | | | | | | | | | |
| 98904-43-9 | | | | | | | | | | |
| MS | | | | | | | | | | |
| QC Sample #57412 | | | | | | | | | | |
| Original 112348003 | | | | | | | | | | |

Quality Control Report

Attention Michael Neely
Department Organic, Semivolatiles
Group # WSCF112348

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|------------------|------------|--|----------|-------|---------|----------|-----|-----------|--------------|----------|
| Nitrobenzene-d5 | 4165-60-0 | | | | 107.6 | 53 - 129 | | | | 06/08/11 |
| 2-Fluorobiphenyl | 321-60-8 | | | | 113 | 36 - 141 | | | | 06/08/11 |
| Terphenyl-d14 | 98904-43-9 | | | | 107.8 | 61 - 142 | | | | 06/08/11 |
| MSD | | QC Sample #57413 Original 112348003 | | | | | | | Paired 57412 | |
| Nitrobenzene-d5 | 4165-60-0 | | | | 111.7 | 53 - 129 | | | | 06/08/11 |
| 2-Fluorobiphenyl | 321-60-8 | | | | 112.7 | 36 - 141 | | | | 06/08/11 |
| Terphenyl-d14 | 98904-43-9 | | | | 109.6 | 61 - 142 | | | | 06/08/11 |

June 09, 2011 13:06:56

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Quality Control Report

Attention Michael Neely
Department Organic, Semivolatiles

Group # WSCF112348

QC Batch 183060
Associated Samples 112348003, 112348004

Test Extractable Diesel and Petroleum

| Analyte | CAS # | Original Found | QC Found | Units | % Recov | Limits | RPD | RPD Limit | RQ | Analyzed |
|------------------------------|---------|----------------|----------|--------------------|---------|----------|------|-----------|--------------|----------|
| SAMPLE | | | | | | | | | | |
| o-Terphenyl SAMPLE | 84-15-1 | | | Sample #112348003 | 94.4 | 70 - 130 | | | | 06/07/11 |
| o-Terphenyl BLANK | 84-15-1 | | | Sample #112348004 | 92.8 | 70 - 130 | | | | 06/07/11 |
| o-Terphenyl LCS | 84-15-1 | | | QC Sample #57414 | 91.9 | 70 - 130 | | | | 06/07/11 |
| o-Terphenyl MS | 84-15-1 | | | QC Sample #57416 | 94.7 | 50 - 150 | | | | 06/07/11 |
| o-Terphenyl MSD | 84-15-1 | | | Original 112348003 | 104.8 | 50 - 150 | | | | 06/07/11 |
| o-Terphenyl | 84-15-1 | | | QC Sample #57417 | | | | | Paired 57416 | 06/07/11 |
| | | | | Original 112348003 | 99.6 | 50 - 150 | 5.10 | 30 | | |

Analytical Comment Report

Attention: Michael Neely

Group # WSCF112348

Quality Control Comments Department Inorganic

| | | |
|-------|---|--|
| 56863 | B2CMH9(112317001MSD) | |
| 57394 | Analyte Manganese - ICP-2008 MS All possible metal Matrix Spike RPD outside established laboratory limits No flags assigned. B2F039(112326012DUP) | |
| | Analyte Hexavalent chromium - Hexavalent chromium Duplicate is flagged for RPD out-of-limits. RPD does not apply to samples concentrations below the calibration range. [1] RPD is calculated on measured values and not applicable for a result below the RDL. | |

Analytical Comment Report

Attention: Michael Neely

Group # WSCF112348

Quality Control Comments Department Radiochemistry

| | |
|------------------|--|
| 5686 | BLANK for HBN 182700 [RADP/536 |
| Analyte 56945 | Uranium-235 - Uranium (AEA) [1] The Blank is less than 5X the MDC and is acceptable, per S&GRP SOW. B2BNL4(112348003DUP) |
| Analyte | Strontium-89/90 - Strontium 89/90 (GPC/GEA) [1] Duplicate RPD out-of-limits. RPD limit does not apply to results near the Minimum Detectable Concentration. |

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 13 pages
Including cover page

Sample Receipt

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

ACKNOWLEDGEMENT OF SAMPLES RECEIVED

WSCF Laboratory

PO Box 650 S3-30
Richland, WA 99352

ATTN: Michael Neely

Customer Code: CHPRC
PO #: 401586
Work Order #: 112348
Profile #: F11-064-029
Proj. Mgr.:
Phone:

The following samples were received from you on 5/31/2011 10:30:00 AM. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

| Sample # | Sample ID | Matrix | Collected | Received |
|------------------------|-----------|--|-----------------|-----------------|
| Tests scheduled | | | | |
| 112348001 | B2BNK0 | SOIL | 5/31/2011 09:07 | 5/31/2011 10:30 |
| | | 8260V-S; DRY-WEIGHT | | |
| 112348002 | B2BNJ9 | SOIL | 5/31/2011 09:07 | 5/31/2011 10:30 |
| | | 8260V-S; DRY-WEIGHT | | |
| 112348003 | B2BNL4 | SOIL | 5/31/2011 09:07 | 5/31/2011 10:30 |
| | | 2008-S; 6010-S; AEA-AM-S; AEA-PU-S; AEA-U-S; CR6-S; DRY-WEIGHT; GEA-S; IC-S; PAHSIM-S; PCB-SA; SR89/90-S; TC99-S; TPHDWA-S | | |
| 112348004 | B2BNL5 | SOIL | 5/31/2011 09:07 | 5/31/2011 10:30 |
| | | 2008-S; 6010-S; AEA-AM-S; AEA-PU-S; AEA-U-S; CR6-S; DRY-WEIGHT; GEA-S; IC-S; PAHSIM-S; PCB-SA; SR89/90-S; TC99-S; TPHDWA-S | | |

Test Acronym Description

| Test Acronym | Description |
|--------------|----------------------------|
| 2008-S | ICP-MS (S) |
| 6010-S | ICP-AES (S) |
| 8260V-S | Volatiles by 8260B (S) |
| AEA-AM-S | Americium (AEA) (S) |
| AEA-PU-S | Plutonium (AEA) (S) |
| AEA-U-S | Uranium Isotopic (AEA) (S) |
| CR6-S | Cr6 (S) |
| DRY-WEIGHT | Dry Weight as Pct Moisture |
| GEA-S | Gamma Energy Analysis (S) |
| IC-S | Anions by IC (S) |

Sample Receipt

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

| | |
|-----------|-----------------------------|
| PAHSIM-S | PAHSIM by 8270D SemiVOA (S) |
| PCB-SA | PCB (8082) (S) ASE |
| SR89/90-S | Strontium 89/90 (GPC) (S) |
| TC99-S | Technetium-99 (S) |
| TPHDWA-S | TPHD-WA (S) |

Sample Receipt

| CH2MHill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | |
|--------------------------------------|---|--|---|
| COLLECTOR | KC Patterson GLPRC | COMPANY CONTACT | TELEPHONE NO. |
| SAMPLING LOCATION | 206-W-147 R. A.R. 2 | PROJECT DESIGNATION | ABD 200 W 147 ft. A Verification Sample - 503 |
| ICE CHEST NO. | HJCF-NJ-STZ-21 | FIELD LOGBOOK NO. | ACTUAL SAMPLE DEPTH |
| SHIPPED TO | Waste Sampling & Chamberization | OPPOSITE PROPERTY NO. | 6'-12' |
| MATRIX* | POSSIBLE SAMPLE HAZARDS / REMARKS | PRESERVATION | Cool < -7°C Are > 20C |
| A-Ar | Contains Radioactive Material at concentrations that, if any, may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations, if any, or Inhalable Particulate Matter Order 5000.3 (1990/1993) | HOLDING TIME | 14 Days |
| Cl-Drm | | TYPE OF CONTAINER | AC5 |
| Leads | | NO. OF CONTAINER(S) | 5 |
| Cl-Drm | | VOLUME | 140ml |
| Sols | | SAMPLE ANALYSIS | Extraction Physical Instrumental |
| Liquid | | SAMPLE DATE | 5/31/11 |
| O-Cu | | SAMPLE TIME | 0900 ✓ |
| S-Soln | | SIGN/ PRINT NAME | <i>[Signature]</i> |
| T-Soln | | DATE/TIME RECEIVED BY STORED IN | MAY 31 2011 10:00 AM |
| Var-Haz | | DATE/TIME RECEIVED BY STORED IN | 2011-05-31 10:00 AM |
| Wh-Var | | DATE/TIME RECEIVED BY STORED IN | 2011-05-31 10:00 AM |
| Wt-Haz | | DATE/TIME RECEIVED BY STORED IN | 2011-05-31 10:00 AM |
| Yard | | DATE/TIME RECEIVED BY STORED IN | 2011-05-31 10:00 AM |
| SPECIAL INSTRUCTIONS | | SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS | |
| CHAIN OF POSSESSION | | REINQUISITION BY REMOVED FROM | |
| REINQUISITION BY REMOVED FROM | | REINQUISITION BY REMOVED FROM | |
| REINQUISITION BY REMOVED FROM | | REINQUISITION BY REMOVED FROM | |
| LABORATORY SECTION | | DISPOSAL METHOD | |
| FINAL SAMPLE DISPOSITION | | PRINTED ON 3/7/2011 | |

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| CH2MHill Plateau Remediation Company | | COMPANY CONTACT | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | PROJECT COORDINATOR | | PAGE 2 OF 2 | |
|--------------------------------------|-----------------------|----------------------|--|--|----------|-----------------------------|--------------------|--------------------------|-------------------|
| COLLECTOR | KC Patterson CHPRC | WIEIGL, DL | | TELEPHONE NO. | 316-2656 | BAUER, RG | PRICE CODE | 4C | DATA TURNAROUND |
| SAMPLING LOCATION | 203-W17-PL-A RV? | PROJECT DESIGNATION | | | | SAF TWO. F11: QCA | AIR QUALITY | <input type="checkbox"/> | 15 Days / 15 Days |
| ICE CHEST NO. | | FIELD LOGBOOK NO. | | ACTUAL SAMPLE DEPTH | | COA | METHOD OF SHIPMENT | <input type="checkbox"/> | ORIGINAL |
| STRAPPED TO | H/A/F-N 'SC7-21' | OFFSITE PROPERTY NO. | | C - 12 1/2" | | 312002ES13 | GOVERNMENT VEHICLE | <input type="checkbox"/> | |
| Waste Sampling & Characterization | N/A | | | | | BILL OF LADING/AIR BILL NO. | | <input type="checkbox"/> | |
| N/A | | | | | | | | | |

SPECIAL INSTRUCTIONS

** The CACN for all analytical work at WSCF is 402637ES20. ** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKT applies to this S&A. ** All VOA samples will be collected using EPA Method 5035A. ** VOA sample bottle sets will include 5 bottles for low level analysis. ** The laboratory is to use one of the low level VOA bottles for moisture content determination. ** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages. ** All VOA samples can be shipped to off-site laboratory on cool 4 degrees C. ** The laboratory shall report only the requested constituents of concern in all final data reports, and EDDs. QC results for non-requested constituents need not be reported, but samples chosen for matrix spike, and all spike compounds shall be identified in the final data report case narrative. No TICs shall be reported.

(1) VOA - 5035/8260 (LCN LEVEL) (Carbon tetrachloride, Xylenes (total)).

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Chain of Custody

Before each use, ensure this copy is the most current version.

| SAMPLE RECORD SHEET FOR VOC SAMPLE COLLECTION | | | | | |
|---|---------------|-------------------------------------|-----------------------------------|----------------------------------|---|
| Location: 200-W-147-PL-A RV2 | | | | | |
| Sample Initials and Date: | | | | | |
| Sample Number | Sample Suffix | Initial Weight ^a (grams) | Total Weight ^b (grams) | Soil Weight ^c (grams) | Soil weight is the total weight minus initial weight. |
| B2BNK0 | K | 28.62 | 33.10 | 4.48 | Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed. |
| B2BNK0 | L | 28.65 | 33.27 | 4.64 | Initial weight is to include all labels, stickers, bags, spin bars (for samples with suffix K, L, M, N and P) and anything else that will be associated with the bottle when it is weighed with the sample. |
| B2BNK0 | M | 28.50 | 32.92 | 4.42 | Initial weight is to include all labels, stickers, bags, spin bars (for samples with suffix K, L, M, N and P) and anything else that will be associated with the bottle when it is weighed with the sample. |
| B2BNK0 | N | 29.31 | 33.75 | 4.45 | Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed. |
| B2BNK0 | P | 28.51 | 33.19 | 4.68 | Soil weight is the total weight minus initial weight. |

Appendix A - Sample Record Sheet, -7C and -20°C Only (Spin Bars)

Published Date: 10/22/10 Effective Date: 10/22/10

VOC Soil and Sediment Sampling

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Chain of Custody

| CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | PAGE 2 OF 2 | |
|---|----------------------------------|------------------------------------|--|
| COMPANY CONTACT WDRG. DL | TELEPHONE NO. 376-2658 | PROJECT COORDINATOR BAUER, RG | PRICE CODE SC |
| PROJECT DESIGNATION ARRA 200 W 167 Ft-A Verification Sampling Soil | | SAF NO. F11 064 | AIR QUALITY <input type="checkbox"/> |
| FIELD LOGBOOK NO. HAF-N 377.21 | ACTUAL SAMPLE DEPTH 0 - 12.1' | COA 30202E10 | METHOD OF SHIPMENT GOVERNMENT VEHICLE |
| SHIPPED TO Waste Sampling & Characterization | OFFSITE PROPERTY NO. N/A | BILL OF LADING/AIR BILL NO. N/A | |
| SPECIAL INSTRUCTIONS | | | |
| <p>** The CLCN for all analytical work at WSCF is 402697EE20. ** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GCR applies to this SAE. <input type="checkbox"/> * All VOA samples will be collected using EPA Method 5035A. ** VOA sample bottle sets will include 5 bottles for low level analysis. <input type="checkbox"/> ** The laboratory is to use one of the low level VOA bottles for moisture content determination. <input type="checkbox"/> *** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level. These suffices are for the purpose of providing bottle weights to the laboratories. These suffices should not be included as part of the sample ID reported in the final data packages. ** All VOA samples can be shipped to off-site laboratory on cool 4 degrees C. ** The laboratory shall report only the requested constituents of concern in all final data reports, and EDDs. QC results for non-requested constituents need not be reported, but samples chosen for matrix spike, and all spike compounds shall be identified in the final data report case narrative. No TICs shall be reported.</p> <p>(1) VOA - 5035/8260 (LOW LEVEL) (Carbon tetrachloride, Xylenes (total);</p> | | | |

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Sample Receipt

Chain of Custody

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A 6005-526 (REV 0)

| SAMPLE RECORD SHEET FOR VOC SAMPLE COLLECTION | | | | | |
|---|---------------|--------------------------------------|--|---------------------------------------|-----------|
| Sample Number | Sample Suffix | Total Weight ¹ (Grams) | Initial Weight ² (Grams) | Sample Initials and Date ³ | Location: |
| K | 34.59 | 34.63 | 34.59 | 34.63 | 34.63 |
| L | 32.65 | 32.65 | 32.65 | 32.65 | 32.65 |
| M | 35.05 | 28.52 | 36.91 | 36.91 | 36.91 |
| N | 36.91 | 36.91 | 37.10 | 37.10 | 37.10 |
| P | 36.05 | 28.91 | 36.41 | 36.41 | 36.41 |
| | 7.14 | | | | |

¹Enter sample number associated with the sampling event.
²Initial weight is to include all labels, stickers, bags, spin bars (for samples with suffix K, L, M, N and P) and anything else that will be associated with the bottle when it is weighed with the sample.
³Ensure that everything weighed for the sample minus initial weight is the vial with sample minus initial weight.

Appendix A - Sample Record Sheet -7°C and -20°C Only (Spin Bars)

Published Date: 10/22/10 Effective Date: 10/22/10

VOC Soil and Sediment Sampling

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| CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | PROJECT COORDINATOR | | PAGE 2 OF 2 | |
|---|--|---------------------|-----------------------------|--------------------|-------------------|
| COLLECTOR | COMPANY CONTACT | TELEPHONE NO. | PRICE CODE | DATA | TURNDOWN |
| KC Patterson CHPRC | WILDTIG, DL | 376-3898 | BAUER, RG | | 15 Days / 15 Days |
| SAMPLING LOCATION ICE CHEST NO. | PROJECT DESIGNATION FIELD LOGBOOK NO. | SAF NO. F11-064 | AIR QUALITY | | |
| 100 W 117TH AV 1 | ARRA 203 W 147 P A Venthauer Sampling Soil | | | | |
| | ACTUAL SAMPLE DEPTH | COA | METHOD OF SHIPMENT | GOVERNMENT VEHICLE | ORIGINAL |
| | 0'-12" | 30002E510 | BILL OF LADING/AIR BILL NO. | | |
| SHIPPED TO Waste Sampling & Characterization | OFF-SITE PROPERTY IND. | N/A | | | |
| SPECIAL INSTRUCTIONS | | | | | |
| <p>** The CAEN for all analytical work at WSCF is 407697FS70. The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKT applies to this S&GKT. The laboratory shall report only the requested constituents of concern in all final data reports, and EDDs. QC results for non-requested constituents need not be reported, but samples chosen for matrix spike, and all spike compounds shall be identified in the final data report case narrative. No IICs shall be reported.</p> <p>(1) 8270 SVOA, GCMS; SIM {Acenaphthene, Acenaphthylene, Anthracene, Benz(a)anthracene, Benz(b)fluoranthene, Benzo(g)phenylene, Benzo(b)pyrene, Benzo(b)fluoranthene, Phenanthrene, Pyrene}; TPH-Diesel/Kerosene Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}; PCBs - 8082 (Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1254, Aroclor-1260);</p> <p>(2) 200.8 HG - ICPMS {Mercury}; ICP/MS - 200.8 (TAL) {Antimony, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc}; ICP/MS - 200.8 (Add-on) {Arsenic, Beryllium, Lead, Selenium, Strontium, Thallium, Tin, Uranium}; ICP Metals - 6010 (Add-On) {Boron, Lithium};</p> <p>(3) IC Antors - 300.0 {Fluoride, Nitrogen in Nitrate};</p> <p>(4) Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-154, Europium-155};</p> <p>(5) Americium-241; Isotopic Uranium {Uranium-233/234, Uranium-235, Uranium-238}; Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Strontium-89/90 - Total Sr; Technetium-99;</p> | | | | | |

A-5023-01P (REV 2)

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| CH2MHill Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | PROJECT COORDINATOR | | PRICE CODE | | SC | | PAGE 1 OF 2 | | DATA TURNAROUND | | | | | |
|--------------------------------------|--|--|---|---------------------|----------|----------------------|------------|-------------|-------------------------------------|--------------------|---|-----------------|-----------|-------------|-------------------------------------|---|-----------|
| COLLECTOR | KC Paterson CHPRC | COMPANY CONTACT | WDRG, DL | TELEPHONE NO. | 376-2558 | SAF NO. | F11-364 | AIR QUALITY | <input checked="" type="checkbox"/> | METHOD OF SHIPMENT | | COA | 303C02510 | DISPOSED BY | | DATE/TIME | |
| SAMPLING LOCATION | 200-W-147-P-L-RV 2 | PROJECT DESIGNATION | ARRA 200-W-147-P-A Verification Sampling - Soil | ACTUAL SAMPLE DEPTH | 0'-12' | HOLDING TIME | 14(1) Days | COD-4C | <input checked="" type="checkbox"/> | COD-4C | <input checked="" type="checkbox"/> | 28 Days | 30 Days | GP | <input checked="" type="checkbox"/> | SQUR RECT RND BLDG POLY | DATE/TIME |
| ICE CHEST NO. | | FIELD LOGBOOK NO. | HJUF-N-SC7-21 | STATE PROPERTY NO. | N/A | PRESERVATION | 14(1) Days | COD-4C | <input checked="" type="checkbox"/> | COD-4C | <input checked="" type="checkbox"/> | 6 Months | 6 Months | GPP | <input checked="" type="checkbox"/> | GP | DATE/TIME |
| SHIPPED TO | Waste Sampling & Characterization | HOLDING TIME | 14(1) Days | TYPE OF CONTAINER | AG | NO. OF CONTAINERS(S) | 1 | VOLUME | 25LNL | ASORT | SCRTL | 50ML | 50ML | SCRTL | <input checked="" type="checkbox"/> | SECTION (S) IN SPECIAL INSTRUCTIONS | DATE/TIME |
| MATRIX* | 4-Ac 4-Cu 4-Dm 4-Hg 4-SmK 4-U 4-U- 5-Sa Se- V-Issue W-Wear W-Wee x-Oil | POSSIBLE SAMPLE HAZARDS/ REMARKS | Contains Radioactive Material & concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulation but are not released per DOE Order 5400.1 (1990) 1993 | SPEC. INSTR. | 5/31/11 | SAMPLE DATE | 5/31/11 | SAMPLE TIME | 0907 | SCRTL | SECTION (S) IN SPECIAL INSTRUCTIONS | 50ML | 50ML | SCRTL | <input checked="" type="checkbox"/> | SECTION (S) IN SPECIAL INSTRUCTIONS | DATE/TIME |
| SPECIAL HANDLING AND/OR STORAGE | | SAMPLE ANALYSIS | | | | | | | | | | | | | | | |
| SAMPLE NO. | 02BNL5 | MATRIX* | SOIL | SAMPLE DATE | 5/31/11 | SAMPLE TIME | 0907 | | | | | | | | | | |

| CHAIN OF POSSESSION | | SIGN/PRINT NAMES | | SPECIAL INSTRUCTIONS | | |
|------------------------------|-----------------|-----------------------|-----------------------|---|-------------|-----------|
| RELINQUISHED BY/REMOVED FROM | MAY 31 2011 | RECEIVED BY/STORED IN | MAY 31 2011 | SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS | | |
| KC Paterson | 10:30 AM | 10:30 AM | 10:30 AM | | | |
| RELINQUISHED BY/REMOVED FROM | | RECEIVED BY/STORED IN | | | | |
| RELINQUISHED BY/REMOVED FROM | | RECEIVED BY/STORED IN | | | | |
| RELINQUISHED BY/REMOVED FROM | | RECEIVED BY/STORED IN | | | | |
| RELINQUISHED BY/REMOVED FROM | | RECEIVED BY/STORED IN | | | | |
| LABORATORY SECTION | RECEIVED BY | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME | DISPOSED BY | DATE/TIME |
| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | | | | | |
| PRINTED ON 2/7/2011 | | | | | | |

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Chain of Custody

| CH2MHILL Plateau Remediation Company | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | PAGE 2 OF 2 | |
|--------------------------------------|------------------------------------|--|--|---------------------|--------------------|
| COLLECTOR | KC Patterson CHPRC | COMPANY CONTACT | TELEPHONE NO. | PROJECT COORDINATOR | PRICE CODE |
| SAMPLING LOCATION | 200 W-157-PLA RV2 ICE CHEST NO. | WDRIG, DL | 376-2058 | BAUER, RG | SC |
| FIELD LOGBOOK NO. | HUF-N 507 21 | PROJECT DESIGNATION | ARIA 200 W 157 PL A Verification Sampling Soil | SAF NO. | AIR QUALITY |
| SHIPPED TO | W/are Sampling & Characterization | ACTUAL SAMPLE DEPTH | 0 - 12' | F11-064-030 | 15 Days / 15 Days |
| DISPITE PROPERTY NO. | N/A | FIELD LOGBOOK NO. | CDA | | |
| | | BILL OF LADING/AIR BILL NO. | 302002F510 | METHOD OF SHIPMENT | GOVERNMENT VEHICLE |
| | | | | | ORIGINAL |

SPECIAL INSTRUCTIONS

** The CACN for all analytical work at WSCF is 402697ES20. ** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this S&G. ** The laboratory shall report only the requested constituents of concern in all final data reports, and EDDs. QC results for non-requested constituents need not be reported, but samples chosen for matrix spike, and all spike compounds shall be identified in the final data report case narrative. No TICs shall be reported.

(1) 8270 SVOA, GCMS, SIM (Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Phenanthrene, Pyrene); TPH-Diesel/Kerosene Range; WTPH-D (Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range); PCBs - 8082 (Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260);

(2) 200.8 HG - ICP/MS (Mercury); ICP/MS - 200.8 (Tl) (Antimony, Barium, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Silver, Vanadium, Zinc); ICP/MS - 200.8 (Add-on) (Arsenic, Beryllium, Lead, Selenium, Strontium, Thallium, Tin, Uranium); ICP Metals - 6010 (Add-On) (Boron, Lithium);

(3) IC Anions - 300.0 (Fluoride, Nitrogen in Nitrate);

(4) Gamma Spectroscopy (Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155);

(5) Americium-241; Isotopic Uranium (Uranium-233/234, Uranium-235, Uranium-238); Isotopic Plutonium (Plutonium-238, Plutonium-239/240); Strontium-89/90 -- Total Sr; Technetium-99;

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